

MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

Vol. XIV. No. 6.
WEEKLY.

BALTIMORE, SEPTEMBER 15, 1888.

\$4.00 A YEAR.
SINGLE COPIES, 10 CENTS.

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Steam, Hydraulic and Locomotive Packing, Works, 413 to 421 Race St., Cor. of Crown. **MANUFACTURERS' MILL and ENGINEERS' SUPPLIES**
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Milling Outfits for Flour and Meal.

WE MAKE ROLLS AND PORTABLE MILLS COMPLETE.

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MORSE ELEVATOR WORKS.
MORSE, WILLIAMS & CO. Successors to
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Works: FRANKFORD AVE., WILDEY & SHACKANAXON STS. PHILADELPHIA, PA.
Branch Office, 108 Liberty Street, NEW YORK.

Report of the AQUEDUCT Commissioners.

[NEW CROTON AQUEDUCT, NEW YORK.]

AN ELABORATE VOLUME, CONTAINING AUTHORITY TABLES BY THE CHIEF ENG., B. S. CHURCH. JUST ISSUED.

PLANT (by actual count from Table 13.)	
Number of Ingersoll Drills used.....	242
Number of Drills of all other kinds used.....	203
PROGRESS (by actual figures from Table 8.)	
Average weekly progress in best 20 headings that used Ingersoll Drills exclusively (omitting all idle weeks).....	38.73
Average weekly progress in best 20 headings that used other drills exclusively (omitting all idle weeks).....	31.58
DIFFERENCE OF 20 PER CENT. IN FAVOR OF INGERSOLL DRILLS.	

All headings where Ingersoll Drills were used exclusively have been completed. Send for description of Aqueduct, with Engineers' Tables of Progress and Catalogue. Sent free.

INGERSOLL ROCK DRILL CO.,
to Park Place, New York City.



The "GORTON" Boiler.

"PERFECTION IN HOUSE HEATING BY STEAM."

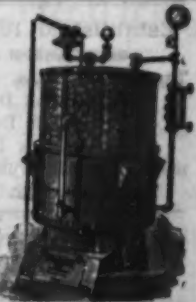
The GORTON BOILER is a Wrought Iron Sectional Tubular Independent Steam Boiler, and needs no brick work in setting. The GORTON BOILER is made of Best Refined Iron and Steel. Can be used as Self-Feeding or Surface-Burning. It has been four seasons before the public, and received the highest praise of "Press, Architects, Builders and Physicians."

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Mill Machinists and Railroad Supplies and Machinery.

The Dodge Patent Wood Split Pulleys.

Carrying on-hand lots of assorted sizes in their warehouse in Baltimore. Write for price-lists and discounts.



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Shafting, Hangers, Couplings, &c.

MEDART PATENT PULLEY CO.,

1906 TO 1914 N. MAIN STREET, ST. LOUIS, MO.
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Wood Working Machinery



COMPLETE OUTFITS FOR PLANING MILLS

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Send for catalogue and visit our extensive
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PHILADA, PA., U. S. A.

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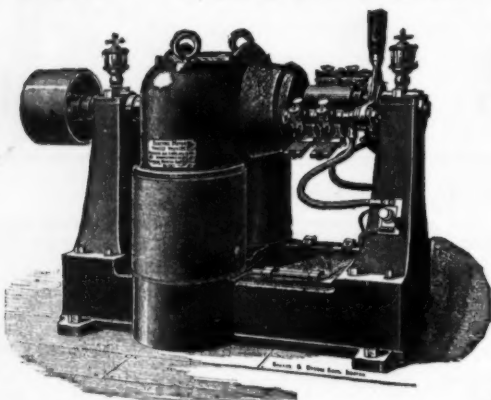
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FOR

Stationary and Railway Use, Mining and
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Applicable to Every Condition where Power can be Used.



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OFFICES: { 178 Devonshire Street, Boston, Mass. 115 Broadway, New York.
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Rubber and Leather Belting.

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so much so that we will send you other orders soon. We can
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STANDARD PATENT TWIST DRILL GRINDING MACHINE.

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The Most Perfect Sprinkler for Fire Protection.

● MANY IN USE. ●

Officially approved by the Mutual
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Insurance Companies—Stock and
Mutual. It is sensitive, prompt,



certain to act; an unequalled dis-
tributor of water, unaffected by age.
Has no brass to brass contacts to ox-
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scriptive pamphlets on application.

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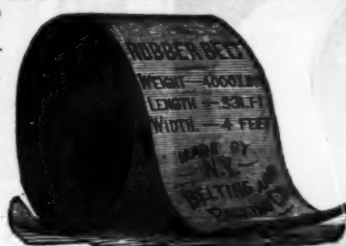


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DOES NOT
CASE HARDEN.

DURABLE,
SAFE AND STRONG.



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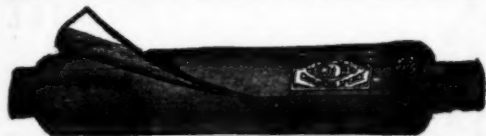
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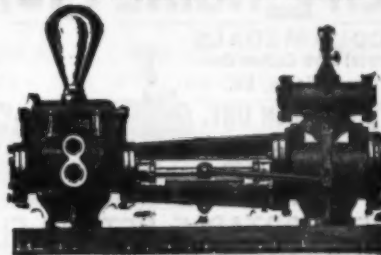


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THE M. T. Davidson Steam Pump.

Simple,
EFFICIENT,
Reliable,
FOR ALL
PURPOSES
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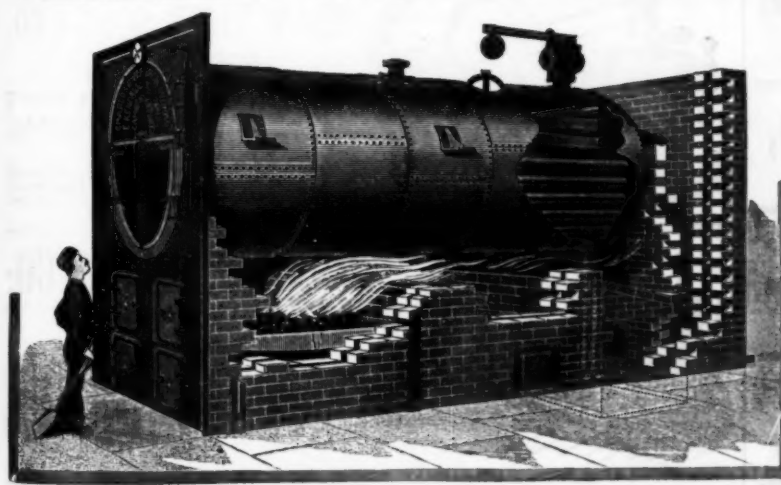
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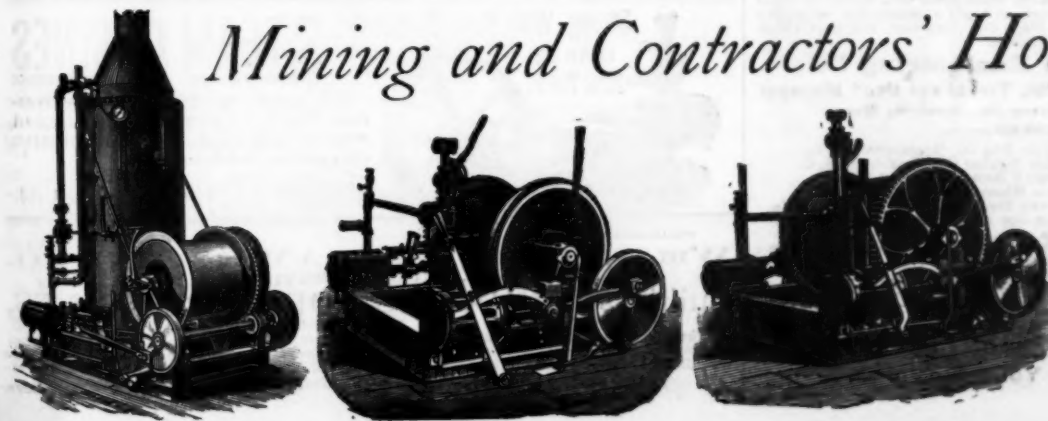
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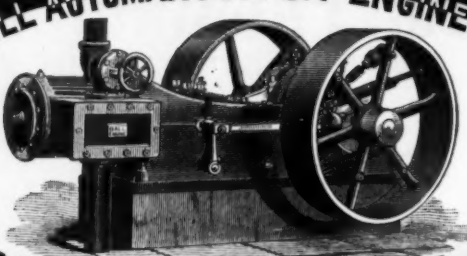


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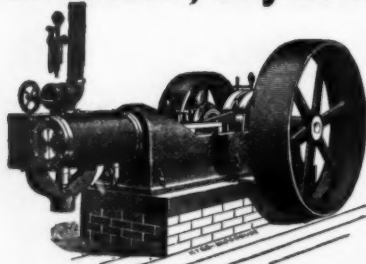


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THE MOST PERFECT GOVERNING EVER OBTAINED

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Automatic Cut-off Engines

5 to 500 Horse Power.

Economy in Fuel Consumption, Close Regulation, Great Durability and Simplicity, Perfect Workmanship and Design.

Unrivalled in these qualities, our engines are suitable for all purposes, especially where high speed and difficult service are required, as in electric-light plants, rolling mills, etc. Send for Illustrated Catalogue.

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Awarded **THREE GOLD MEDALS** by the World's Industrial and Cotton Centennial Exposition of New Orleans, La.

MORE THAN 2700 IN USE.

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Including the Well Known **SKINNER PORTABLE RETURN FLUE BOILER**

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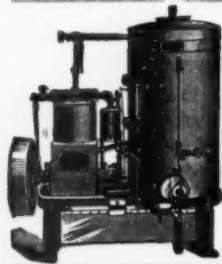
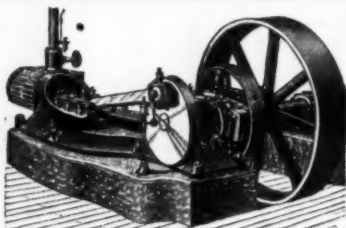
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BOILERS, ETC.

Complete Power Plants Furnished and Erected.

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Acme Automatic Engine,
With **BRYANT'S Patent Safety Boiler.**

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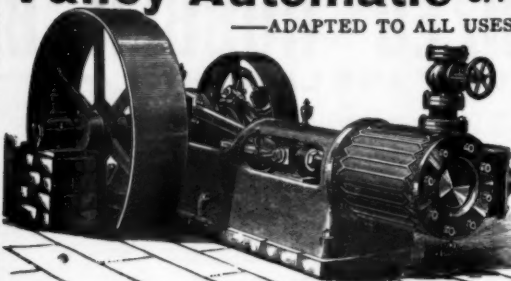
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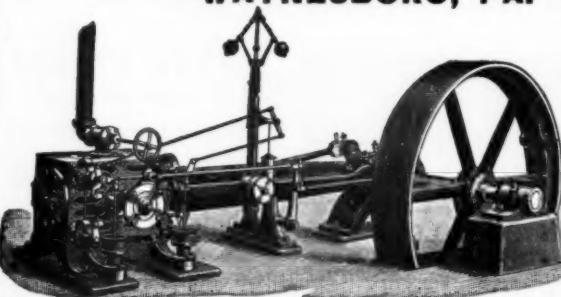
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40 to 1,000 H. P.
Made.

Condensing, Non-Condensing & Compound.
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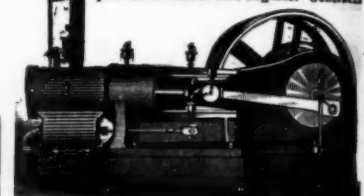
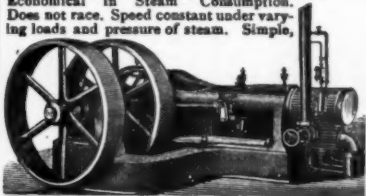


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For Electric Light, Flour, Cotton, Woolen and Rolling Mill Service and all other purposes requiring power. Economical in Steam Consumption. Does not race. Speed constant under varying loads and pressure of steam. Simple,

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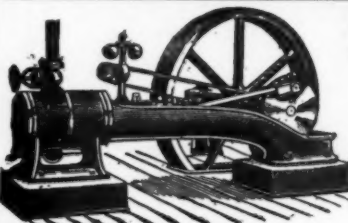
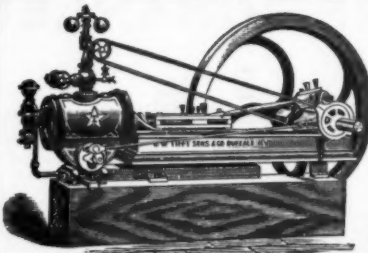
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5 to 500 H. P. Special Stock Sizes 5 to 50 H. P., both Stationary and Semi-Portable.

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Double Drum Derrick Engines. Single Drum Reversing Engines, suitable for Mines and Rapid Hoisting.

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Horse Power.

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Builders of HARRIS-CORLISS ENGINES,

FROM 20 TO 2,000 HORSE POWER.

These Engines are carefully built of best materials and in different forms, such as Non-Condensing, Condensing and Compound Condensing. Send for copy of **ENGINEERS AND STEAM USERS' MANUAL**, by J. W. Hill, M. E. \$1.25. Mention this paper and send for catalogue. **WM. A. HARRIS, Pres. & Treas.**
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Steam Engines and Boilers. Boiler Feeders and Pumps.
Shafting, Pulleys and Hangers. Mill Gearing and Supplies.
Brass Goods, Fittings and Tools.

MODERN ROLLER MILL.

Electric Light Engines, Single and Double.
Brewers' and Coopers' Machinery.
Laundry and Bottlers' Machinery, and Machinery in general.
Patterns Made to Order. Belting, Hose, Packing, etc.
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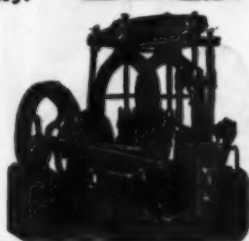
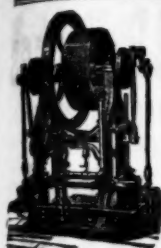
Millers' Rolls Reground and Corrugated.

Send for Descriptive Catalogue, Price and Pattern List.

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For any duty. Electric Light Engines a specialty. Quality high. Prices moderate. Address
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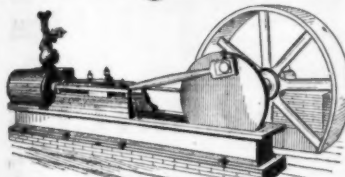
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Positively prevents and removes scale in steam boilers without touching any of the metals. A real necessity for Southern steam users. Saves fuel, repairs and trouble, and doubles the life of the boiler. Sold on its merits, and satisfaction guaranteed or no pay. Write for sample.

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McLaughlin's Stationary Engines.



These engines are made in the best manner and for hard service, and for those situations where a side crank is most available. In ordering state whether a right or left engine is wanted.

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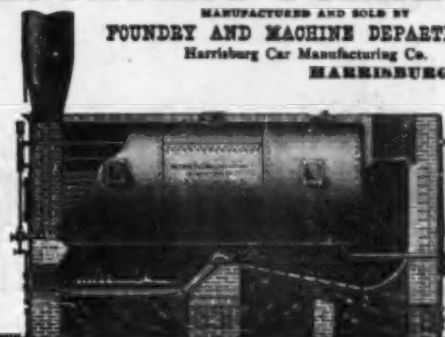
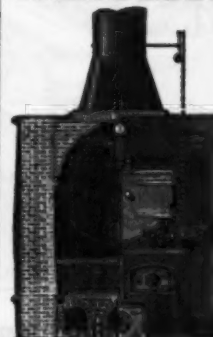
CORRESPONDENCE SOLICITED.

WEITMYER PATENT FURNACE

MANUFACTURED AND SOLD BY

FOUNDRY AND MACHINE DEPARTMENT,
Harrisburg Car Manufacturing Co.

HARRISBURG, PA.



Address **FOUNDRY AND MACHINE DEPARTMENT, Harrisburg, Pa.**

THE PENBERTHY IMPROVED AUTOMATIC INJECTOR

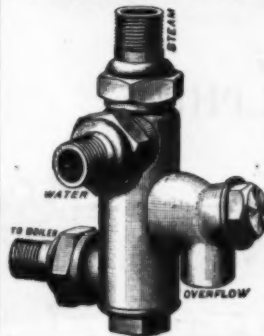
A Thoroughly Reliable and Simple Boiler Feeder for Stationary, Marine and Portable Boilers.

POINTS TO BE CONSIDERED.

They have only two VALVES to operate, only one after water valve is adjusted. They require no watching, as they *restart automatically* if feed is broken. They lift 18 to 30 feet, and hot pipes don't affect them. They work from 25 to 135 and 150 lb. pressure on water at natural temperature. The working parts are interchangeable and can be taken from injector without any tools or breaking connections. Send for circular, price-list and discount.

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—MANUFACTURED BY—
PENBERTHY INJECTOR CO. Detroit, Mich.



Wood Split Pulleys.

MILBURN Gin & Machine Co.

MEMPHIS, TENN., U. S. A.

MANUFACTURERS O.

STEAM ENGINES, BOILERS,

(Made by the Tweedle System of Hydraulic Riveting.)

Cotton Gins, Gin Feeders and Condensers,

And the Celebrated "MILBURN" Wood Split Pulley, with Bushing System.

The best and lightest Pulley made. Every one guaranteed. Send for catalogue, testimonials and price-lists. We have the largest works of the kind in the world. Will send one of our Wood Split Pulleys



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Send for Illustrated Circular and Price-List.



SECTIONAL INSULATED AIR COVERINGS

For PIPES, BOILERS, DRUMS and all other hot or cold surfaces. ASBESTOS CEMENT, PACKING, SHEATHING, &c.

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TO OBTAIN DRY STEAM,

USE THE

Stratton Separator.

This is the only apparatus that automatically separates WATER FROM STEAM IN CONFORMITY WITH NATURAL LAWS. Speed of current is utilized to produce centrifugal action and separate the water from the steam, making the latter perfectly dry. Steam chimneys or drums are unnecessary when this apparatus is used. It is endorsed and in use by the leading Electric Light Companies, in the U. S. Navy, in Sugar Houses, Paper Mills, Water Works, and Steam Vessels, on which it has greatly increased their Power and Speed.

Thousands of Horse Power in Use ALL OVER THE COUNTRY.

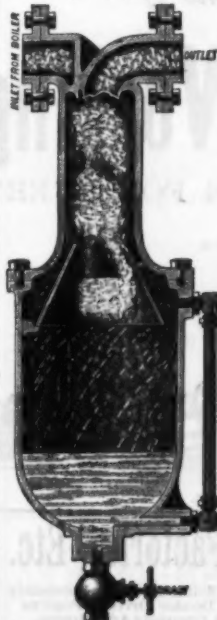
Send for our new publication, "Dry Steam the Foundation of Economy."

The Stratton Separator was awarded the Medal of Excellence at the exhibition of the American Institute for 1886, and the Medal of Superiority in 1897.

Approved and adopted for use in the United States Navy July 14, 1896.

The Stratton Separator Co.

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BOB'S AUTOMATIC STEAM FLUE CLEANER.

Acknowledged and recommended by Engineers to be the most perfect steam flue cleaner in use. Advantages—1. It has no springs or screws to break. 2. The steam can be turned on full head without being wasted. 3. It delivers perfectly dry steam through the tubes, leaving them perfectly dry and clean. A trial is all we ask. Manufactured by J. REGETER & SONS, BALTIMORE, MD.



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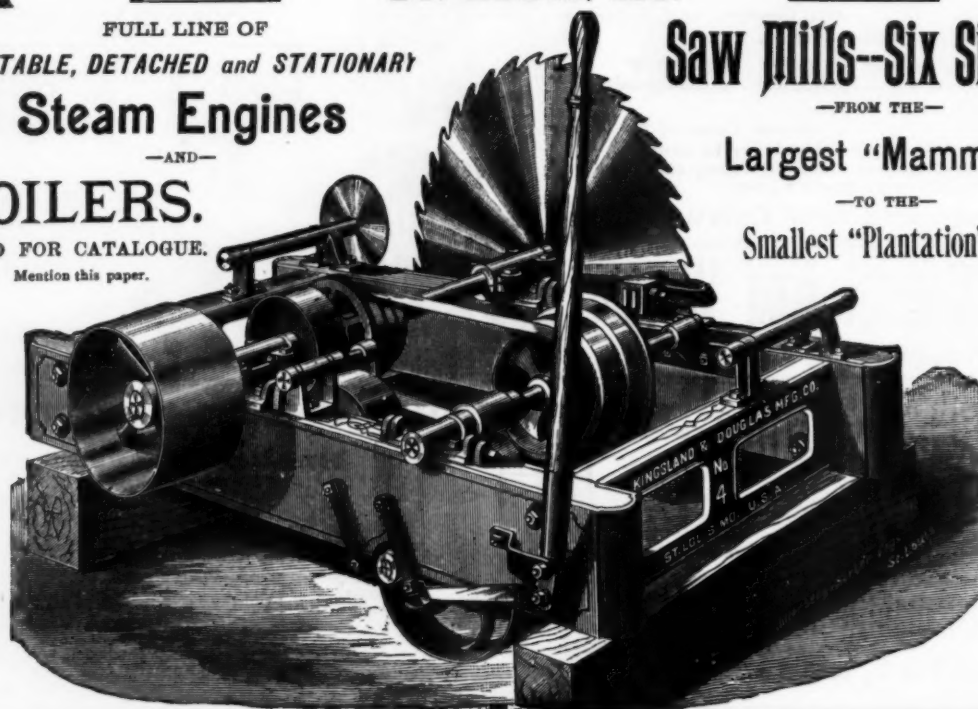
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FULL LINE OF
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Steam Engines

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Largest "Mammoth"

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MANUFACTURERS OF
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Patent Barrel
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CAPACITY:
300 tight or 500
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day. The best
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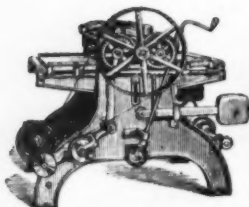
SAW MILLS

With De Loach Pat. Variable Friction Feed.
\$300.00 mill cuts.....10,000 feet per day
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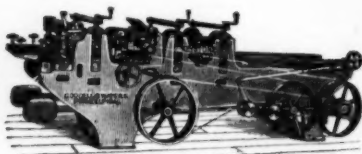
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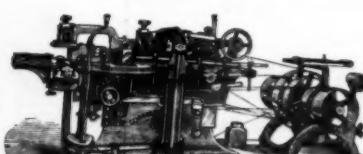
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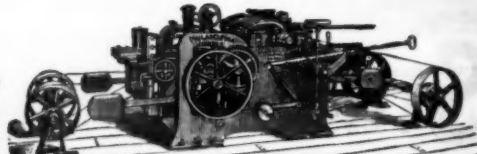
24-inch Finishing Planer.



Keystone Flooring Machine.



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Double Surfacers and Jointer.

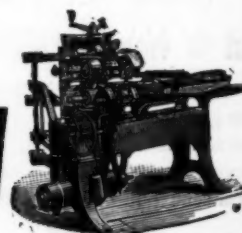
We Manufacture a Complete Line of

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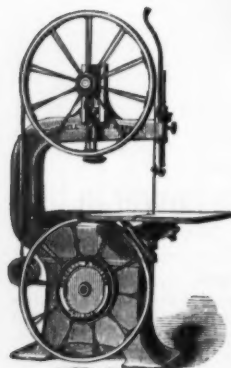
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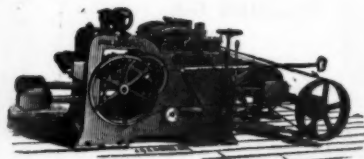
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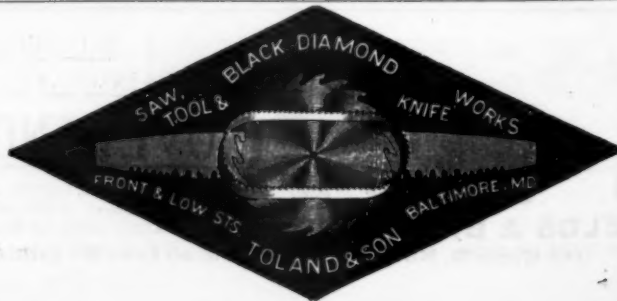


Veneer-Outting Veneer Machines.

Strong, Solid, Durable, Accurately
Made, Double Drivers, Positive
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Automatic Change of
Pitch.
Correspondence solicited.

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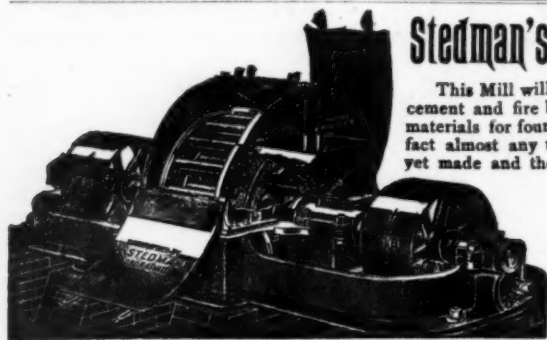


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CHARLOTTE, N. C.

MINING MACHINERY, GOLD MILLS.

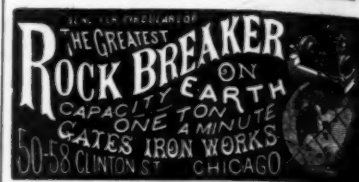


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This Mill will disintegrate or pulverize materials of all kinds, for brick and tile, for cement and fire brick, and slag from open air furnaces for use in rolling mills, and materials for foundry facings, iron ores, animal matter in almost all conditions,—in fact almost any material that can be disintegrated. It is an improvement over any yet made and the result of practical experience.

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STEDMAN'S
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Roller & Detachable Chain Belting

Detachable in every Link
FOR IMPROVED

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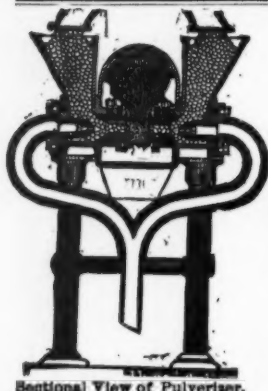
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FOR HANDLING
Coal, Ores, Grain,
CLAY, BRICK, &c.

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Also Manufacturers of the
Lugg Coal Mining Machines
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PNEUMATIC PULVERIZER.

The principle of pulverization consists in the employment of

TWO POWERFUL OPPOSING CURRENTS

of dry super-heated steam, so arranged that they continuously charge themselves with crushed or granulated material, and by the great force and velocity of the steam currents the minerals are dashed against each other with such power of concussion as to cause the hardest ores to be pulverized to any degree of fineness desired. The high temperature of the super-heated steam currents employed, through which every minute particle of ore must pass, causes them to become very hot and dry, which produces a beneficial effect upon Sulphurets and ores containing rusty Gold. The light weight and simplicity of construction of the Pulverizer, the extremely small and inexpensive wearing parts are the WONDER and SURPRISE of all who witness its operation. The Company are prepared to furnish complete plants for pulverizing

10 to 200 Tons Per Day,

Including a Sectional Steam Boiler supplying all the power required.

PNEUMATIC PULVERIZER COMPANY,

L. F. HOLMAN, Pres.

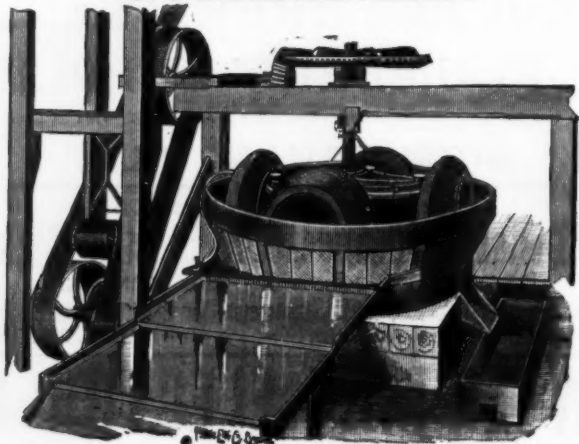
F. A. LUCKENBACH, Supt.

2 and 4 Stone Street, New York.

WRITE FOR PARTICULARS.

WISWELL

Ore Pulverizer AND Amalgamator COMBINED.



The following testimonial from Mr. Marsden, of the firm of Farrel & Marsden, manufacturers of Stone Breakers and Ore Crushers, Ansonia, Conn., speaks volumes for the Wiswell Mill:

Wiswell Electric Mining Machinery Co.:

GENTLEMEN—After carefully inspecting your mill and seeing it in operation, I do not hesitate to say that it is one of the best, if not the best pulverizer and most complete gold saving machine I have ever seen. Please accept congratulations for your success.

S. L. MARSDEN.

WE FURNISH A COMPLETE MILL FOR \$2,500, DELIVERED ON BOARD CARS.

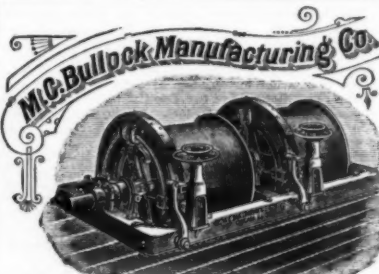
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Lane's Band Friction Single and
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PORTABLE HOISTS

STANDARD DRUMS,

Winze Hoists, Exploring Hoists,

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ORE BUCKETS, SKIPS,

CAGES AND SHEAVES,

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Bullock's Diamond Prospecting Core Drills,

For Surface or Underground Prospecting. No Restrictions as to Use.

THE ONLY RELIABLE DIAMOND DRILL MADE.

Improved Corliss Engine, Slide Valve and Straight Line Engines,

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WRITE FOR WHAT YOU WANT. Cable Address, BULLOCK, CHICAGO.

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Winding Engines,
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Mine Hoists.

(With or without Boilers.)

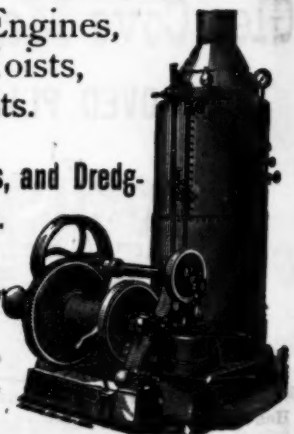
"Mining Plants," Concentrating Works, and Dredging Machinery Furnished Complete.

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References: { Croton Magnetic Iron Mines, Brewster's, N. Y.
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Schuylkill Iron Co., 22 Broadway, N. Y.
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BUILDERS AND IMPORTERS OF

Cotton Machinery,

Also, WOOLEN AND WORSTED MACHINERY.

OPENERS, LAPPERS, ROLLER AND REVOLVING FLAT CARDS, DRAWING FRAMES (over 17,000 Deliveries, Working with Electric Stop Motion), SLUBBING, ROVING, SPINNING FRAMES AND MULES, WARPERS, SLASHERS, Etc., Etc.

Tempered Steel
Needle Pointed

CARD CLOTHING.

READY
GROUND

A Great Success. TRY IT!

Over 70 New England Mills now using it.

Cuts, Descriptive Circulars, Estimates, Etc., on request.

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THE Campbell Cotton Compress Co.

Sole Manufacturers of the

CAMPBELL COTTON COMPRESS.

Undoubtedly the Most Desirable Compress Made.

It is the cheapest to install, costing only half the price of other makes.
It is the cheapest to run, requiring least fuel, attention and repairs.
It is the only compress profitable for a small market, as it can be run on small lots at a profit, where other compresses could be operated only at a loss.
It is therefore the only compress profitable for the interior, as it will earn a good profit with 40,000 bales or less, while it has a capacity of 40,000 to 60,000 bales per season.
It will compress to a density of 25 or more pounds to the cubic foot.
It is put up under the fullest guarantee.

Correspondence Solicited. Address

The Campbell Cotton Compress Co.

Offices, 59 and 61 Walnut Street,

CINCINNATI, O., U. S. A.

Patent Needle Pointed
Hardened and Tempered Steel Wire

CARD CLOTHING,

For COTTON and WOOLEN MILLS.

T. K. EARLE MFG. CO. WORCESTER, MASS.

SEND FOR SAMPLES.

COTTON **W**OOL
Openers Washers and Dryers.
and Lappers. Kitson Machine Co. LOWELL, MASS.



BROWN & KING, MANUFACTURERS OF COTTON MILL SPECIALTIES.

Roller Covering, Loom Pickers and Strapping.

Dealers in Roller Coverers, Stock and Tools; Cotton and Woolen Mill Supplies.

Full Line "Hick's" United States Standard Ring Travelers, Mill Wire Goods Spring Cotters, Belt Hooks, Lacing, &c., kept constantly on hand.

Wrought Iron Pipe Fittings and Brass Goods. Southern Agents for the celebrated "A. C. & D. Oak Tanned Patent Lap Belting, Galvin Compound Wedge Gate Valve, Ingham's Watchman Time Detectors, Diamond Emery Wheel Machine Co., &c.

Office and Salesroom, No. 62 S. Broad Street. ATLANTA, GA.

BOBBINS AND SPOOLS,

Manufactured by

John L. Cheney & Co.

LOWELL, MASS.

PROMPT DELIVERY.

Correspondence Solicited.

HILLARD & GOLDSMITH PATENT.



W. H. GOLDSMITH,
SOLE AGENT,
FALL RIVER, MASS.

The only successful machine in the world for picking threads out of spinners' waste.

LOWELL CARD CO. CARD CLOTHING of Every Description,

Set With Round, Angular, Double-Convex Iron or Steel Wire.

LOWELL, MASS.



Taylor Lever Cotton Compress,

Cylinder 30 inches in Diameter.

We make for the above compress the following claims:

1st.—The most POWERFUL Compress in the world. 2d.—The STRONGEST. 3d.—The most SIMPLE, consequently the least liable to get out of order. 4th.—The most ECONOMICAL, effecting a saving of from 30 to 50 per cent. in fuel. 5th.—It will compress as many, if not more, bales per day, as any other compress. 6th.—It is far the cheapest of any first-class Compress on the market. This machine is fully warranted to do the work as represented. Correspondence solicited. Address

FILES, TAYLOR & FILES, Manufacturers,

HILLSBORO, TEXAS.

The DEANE STEAM PUMP CO.

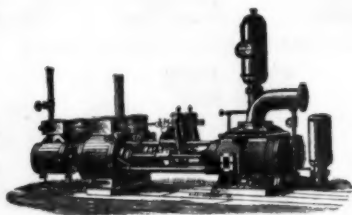
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BUILD

STEAM * PUMPING * MACHINERY

OF EVERY VARIETY.

Send for New Catalogue No. 22.



The DEANE STEAM PUMP CO.

NEW YORK, BOSTON,

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MAKE A SPECIALTY OF

Water Works ENGINES

FOR THE SUPPLY OF CITIES AND TOWNS.

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MECKLENBURG IRON WORKS, Charlotte, N. C.

E. V. WHITE & CO., Norfolk, Va.

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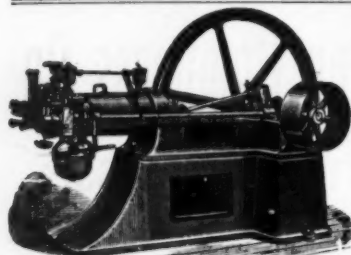
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Over 18,000 in Use. **Otto Gas Engine** 30 to 70 per cent. less Gas consumption than ANY OTHER ENGINE.

Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started instantly by a Match, it gives full power immediately. When stopped, all expense ceases.

Guaranteed to Consume 25 to 75 Per Cent. less Gas than any other Gas Engine Doing the same Work.

No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by insurance companies.

UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes: 1 to 25-Horse power.

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WE MANUFACTURE

Automatic Sprinklers,
Roving Frames,
Rabbeth, Sherman, } Spindles,
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Double Adjustable Spinning Rings,
Twisters, Spoolers, Reels,
Spooler-Guides,
Bobbin-Holders,
Banding Machines,Slasher } Warpers,
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Warper { Creels and Beams,
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Stop Motions & Clocks,
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Sharples,Lever Screws for Roving and
Spinning Frames, Lifting-Rod
Cleaners, Traveller Brushes.
Temples { Dutcher, } With Latest
Hardaker, } Improvements.
Shuttle Guards, Durkin's
Thick and Thin Place Preventer,
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Oil Can, Belt Hole Guards.Milled Machine Screws,
Special Milled Work
of all kinds, etc., etc.

REPAIRS

For Spindles, Temples and all
our Machinery furnished
at short notice.

Send for Prices.

GEORGE DRAPER & SONS, HOPEDALE, MASS.

TELEGRAPH ADDRESS AND RAILROAD
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FRICTION DRILL

Tested Four Years Before Placing on the Market. Superseding the Ratchet.

Machinists, Boiler Makers, Mechanics and all parties having use for a Ratchet will find this Drill a great saving of time. Can
be used in contracted places where a Ratchet cannot. Send for Illustrated Circular and Price List. Mention Paper.

F. F. WATERS MANF'G CO.

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Smith's Patent. Patented June 5, 1883.

Instantaneous Clutch. No Lost Motion. Noisless.

YORK MFG. CO.
YORK, PA.

ICE AND REFRIGERATING MACHINES.

Engines and Boilers.

Automatic Engines.
Yacht Engines. Factory Engines.

YORK IMPROVED TURBINE WATER WHEELS.

{ Send for Cata-
logue of Special
Machinery
Gearing, etc. }

CLEVELAND CITY FORGE & IRON CO. { Cleveland, OHIO. } The Best & Cheapest Pressed Wrought Iron Turnbuckles.

ALEXANDER BROWN & SONS, { ESTABLISHED 1811 } BALTIMORE. Transact a General Foreign and
Domestic Banking Business.Buy and sell Bills of Exchange on Great Britain, Ireland, and other foreign points. Issue
Commercial and Travelers' Credits in Sterling, France or Dollars, available in any part of the
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tions of Drafts. Railroad, Municipal and other loans negotiated, and advances made on Cotton,
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corporations and individuals. Members of Baltimore Stock Exchange. Buy and sell Stocks and
Bonds in this and other cities. Private wire to Philadelphia and New York.

BROWN BROTHERS & CO., New York, Philadelphia and Boston.

BROWN, SHIPLEY & CO., London and Liverpool.

Washburn & Moen Mfg. Co., Worcester, Mass.

MAKERS OF IRON AND STEEL

MANUFACTURERS OF

Iron, Steel and Copper Wire, Wire Rope, Barbed Wire. Chicago, Worcester, NY Lake Street,
New York, Washington, St. Louis, Mass.

Manufacturers' Record.PUBLISHED EVERY SATURDAY BY THE
MANUFACTURERS' RECORD CO.J. W. BIGSBY, President.
R. H. EDMONDS, Treasurer.

R. H. EDMONDS, EDITOR AND MANAGER.

OFFICE.COR. EXCHANGE PLACE AND COMMERCE STREET
BALTIMORE.

NEW YORK OFFICE, - - 32 Cortlandt Street.

SUBSCRIPTION \$4.00 A YEAR.

BALTIMORE, SEPTEMBER 15, 1888.

THE following letters should be read by those who contemplate advertising and are looking for the best medium:

PROVIDENCE, R. I., August 3, 1888.

Editor Manufacturers' Record:

Your favor of August 1st in regard to our advertisement received this morning, and in reply will say that we wish you to continue the advertisement as heretofore. We have advertised more or less in other papers and are doing so now, but we know of no advertisement, so far as we are able to judge, that brings as satisfactory results for the money expended as our card which has been in the MANUFACTURERS' RECORD for the last year. Yours truly,

C. R. MAKEPEACE & CO.,

Architects and Mill Engineers.

The Schenck Belt Holder & Shifter Company.

NEW YORK, July 26, 1888.

Editor Manufacturers' Record:

Of the great number of inquiries which we have received regarding the Schenck belt holder and shifter, a large portion are the result of our "ad." in your journal. We also find that the information contained in its columns is very valuable in our business. Respectfully,

THE SCHENCK
BELT HOLDER & SHIFTER CO.**Frank W. Swett, Manufacturer of
Band Saws and Band Saw Tools.**

CHICAGO, ILL., June 1, 1888.

Editor Manufacturers' Record:

Please find enclosed contract signed for advertising in your paper—third renewal. I have had a fine trade so far this year, and I consider your paper the best medium I know of to reach the machinery dealers and manufacturers, and that is why I continue in it. I always stick to a good thing. Have had quite a large trade South this season.

FRANK W. SWETT.

**A. Wyckoff & Son, Manufacturers of
Wood Water Pipe.**

ELMIRA, N. Y., June 30, 1888.

Editor Manufacturers' Record:

We are very much pleased with the results of advertising in the MANUFACTURERS' RECORD. We have had numerous inquiries and have sold considerable goods, which we can trace direct to our advertisement in the MANUFACTURERS' RECORD.

A. WYCKOFF & SON.

**Cordesman, Meyer & Co., Manufactur-
ers of Wood-Working
Machinery.**

CINCINNATI, O., January 11, 1888.

Editor Manufacturers' Record:

We are highly pleased with the returns from our advertisement in your journal, and take pleasure in recommending it to others in our line as a valuable medium for reaching the trade. Yours very truly,

CORDESMAN, MEYER & CO.

**F. F. Waters Manufacturing Co., Manu-
facturers of Smith's Patent
Friction Drill.**

BOSTON, MASS., February 4, 1888.

Editor Manufacturers' Record:

It gives us pleasure to state that our "ad." in the MANUFACTURERS' RECORD has brought us, on the average, about 30 letters per month. We consider it a paying investment. Respectfully,

F. F. WATERS MFG. CO.

**F. F. Adams Co., Manufacturers of
Patent Household Articles.**

PHILADELPHIA, PA., March 10, 1888.

Editor Manufacturers' Record:

The "ad." we have in your paper we consider one of the best investments we have made this year. We are receiving numerous enquiries from first-class houses, asking for catalogues and best cash prices. This is our second year with you, and we can trace a number of our orders direct to our "ad." in the RECORD. We have tried other papers who claim to reach the trade we are seeking, and have settled on the MANUFACTURERS' RECORD as being superior to all others for Southern trade. Yours truly,

THE F. F. ADAMS CO.

Industrial Activity in the South.

The long list of new enterprises reported in this issue of the MANUFACTURERS' RECORD shows that there is no let up in the industrial activity throughout the South, but rather that it is becoming still more pronounced as the season advances, giving promise of a very busy fall and winter. At Rockmart, Ga., a \$4,000,000 company has purchased large tracts of marble and slate lands, as well as much of the town itself, and extensive developments will be made of the almost unlimited slate and marble wealth of that section. Birmingham rejoices in the prospect of a \$200,000 agricultural implement manufacturing company, and Florence in the signing of a contract to secure a \$300,000 hardware factory. Sheffield has definitely secured the location of \$300,000 railroad machine shops, and orders have been given for their immediate construction, while the Baltimore & Ohio road proposes to thoroughly investigate its entire machinery department with a view to great improvements in all its shops wherever found necessary, and is at the same time getting ready for the construction of immense shops at Wheeling. In Charleston, W. Va., arrangements have been concluded for building a rolling mill, bolt and nut factory, &c., while in Rockville, Md., \$50,000 machine shops are being worked up. Jacksonville, Ala., the county seat of Calhoun county, is to have its first furnace, a 60-ton charcoal plant, and blessed with inexhaustible deposits of high-grade ores as it is, there can be no doubt of its success if well managed. At Dalton, Ga., a \$25,000 chair factory is assured. Richmond, Ky., and Lynchburg, Va., are each to have new 50-barrel flour mills, while a number of other mills not heretofore reported in the MANUFACTURERS' RECORD are under consideration. A Spartanburg company has awarded a contract for 1,000,000 brick for a new cotton mill company, and at Columbia a \$25,000 cotton-seed oil mill and fertilizer factory company has been chartered. Chattanooga, among many other new enterprises, is to have another fine hotel. These are but straws which point the way.

In every direction this activity is seen. In the building of railroads, in the establishment of new enterprises, large and small, in the rapid construction of the hundreds, we might say thousands, of enterprises now under way, in the enlargements of old mills and factories, and in the steady operation of almost every factory of whatsoever kind that is in the South, we can see the prosperity in all industrial interests. From no part of the South is there a complaint or dullness in manufactures, and idle mills or works cannot be found. The whole South is busily at work, and the hum of machinery everywhere tells of the active demand for all goods produced by Southern works, and all reports unite in predicting a season of great activity.

Possibly a Blessing in Disguise.

The way in which the people of the South have undertaken to defeat the bagging trust is worthy of the highest commendation. Never before, probably, was a whole section of country so bent upon devising ways and means to destroy a monopoly which had suddenly sprung into power. Not only the cotton growers, but all other classes as well have been seeking to find a substitute for jute bagging. Jute is a foreign material, and the money to pay for it must annually be sent out of the South. As a result of the attempt to force the price up through the trust, it is almost certain that a substitute of Southern origin will be found. While various experiments are being made to produce a suitable material out of pine straw, veneering of gum, elm and other woods, it is probable that the final solution will be in the shape of goods made of cotton. Out of the South's great fleecy staple and through the work of Southern mills will doubtless come in future the material that is to wrap the cotton for shipment. When this is done the production of it will annually require from 100,000 to 150,000 bales of cotton, and most of this will be by Southern mills. This would add almost one third to the consumption of raw cotton by the mills of the South, and would be another great advance step in the progress of that section.

It seems probable that the Lane Cotton Mills, of New Orleans, have produced a material which will meet all the requirements, which can be made by any cotton mill, and on which there is no patent or royalty to prevent its production by others. This material has been carefully tested in New Orleans, and the Times Democrat, in concluding a full review of its merits, says:

We can imagine no better solution of the difficulty than this. Let us review the points of the case. We have here a bagging that can be produced by the millions of yards in a few weeks, and by the factories right in the center of the cotton country. As every mill can make it at a moment's notice, and does not have to depend on supplies from India, there can never be a corner. The use of this material will create a demand for a low grade of cotton now difficult to sell, and will advance its price half a cent a pound, making in this item alone a handsome profit to the South. The bagging is as elastic as jute, as strong, as well adapted to covering cotton; it will stand hooks, compresses and handling of every kind; it will protect the cotton better from dirt and from water, and affords it ample ventilation. In the matter of price it can compete with jute, and, as it can be used again, it will actually prove cheaper to the planter than the Indian product.

If the formation of the bagging trust should result in the general adoption of a covering made of cotton, it will have proved a blessing in disguise.

IN the getting up of an attractive, original pamphlet to set forth its advantages, Fort Worth leads. Its remarkable originality, the entire book being a parody on the Mikado, and the beauty of the print will command attention where the average pamphlet will be cast aside. We suppose copies can be had from the Fort Worth Board of Trade.

IRON manufacturers in the Pittsburgh district are finding that natural gas at present prices is too expensive, and they are beginning to look for a cheaper fuel. Some are preparing to manufacture their own gas, and, commenting on this condition of affairs, the American Manufacturer says:

While no exact figures were given, it is estimated that about 5,000 cubic feet of gas is required to make a ton of iron, and at the present rate charged for natural gas it comes high enough to warrant the construction of plants to manufacture fuel. Although there is no marked disposition to talk on the matter, it is evident that numerous iron manufacturers are closely investigating the chances of getting fuel cheaper than natural gas at present prices, and are about to make a move in that direction.

ONE of the largest railroad spike manufacturing companies in Pittsburgh have their mill shut down and are carrying spikes made in Richmond, Va., to Pittsburgh with which to fill their orders, claiming "that they can bring these spikes from Richmond cheaper than they can make them in Pittsburgh." This is a pretty strong endorsement of the advantages of the South for diversified iron manufactures.

AT a recent meeting in London of the English stockholders of the United States Rolling Stock Co., of New York, President Hegewisch stated that during the first two months of operation of their Anniston car works the profits therefrom were \$30,000. This is a pretty good showing for two months' work, and especially considering the disadvantages incident to getting matters into shape while preparing to add new machinery and enlarge the buildings. "By the end of November," said Mr. Hegewisch, "the Decatur works will be in operation. The Anniston shop now has a capacity of 12, and it is intended to be increased to 20 cars per day. With Anniston increased to its full capacity of 20 cars and Decatur with 15 cars per day, the earnings are expected to reach \$400,000 a year, equal to 10 per cent. on the present capital. If we had been in a position to take all the contracts offered to us I could have promised you 12 per cent. for the year."

THE Richmond Locomotive and Machine Works, of Richmond, Va., write us that though the number of locomotives yet shipped by them is small, "they are pronounced by judges to be excellent of their kind." This company now has completed and nearing completion two 17x24, one 19x24 and one 18x24 moguls, and four 19x24 10-wheel locomotives. Their works are equipped with all the latest and most modern labor-saving devices, and they say that they intend to win a hearty support, and produce machines equal in every respect to those made by older and better known builders. The MANUFACTURERS' RECORD notes with pleasure the success of this company in locomotive building.

BUSINESS PROSPECTS.

Reports from the South Indicate Active Times and General Prosperity, though Heavy Rains Have Damaged the Crops Some.

Up to about two weeks ago the indications were favorable for the largest corn and cotton crops ever produced in the South, but the late heavy rains and high winds have done considerable damage in some sections, and the yield of these two staples will be somewhat reduced. But with good fall weather much of the damage would be repaired. Moreover, even as matters now stand, the prospects would indicate aggregate corn and cotton crops but little short of the unusually heavy yield of last year. In all lines of industrial enterprise the outlook for the fall and winter is very promising. Manufacturers are working on full time, with liberal orders ahead in many cases, and in iron and cotton there is a good margin of profit. Cotton mills especially have enjoyed a long season of great prosperity, and throughout the world this industry is in a flourishing condition, giving promise that the mills in the South will continue to earn heavy dividends through the coming twelve months, as they have done through the last twelve. In the iron trade there is a decided upward tendency in prices, which have already made a substantial advance during the last few weeks, and the new furnaces about to blow in will doubtless enter upon the first run under the favorable condition of a good demand for their product at fairly profitable figures. This will have a most excellent effect upon all lines of trade, as the iron business has absorbed so much capital and commanded such wide attention that its prosperity is felt in all other branches of business.

In looking over the whole field of Southern growth the prospects are decidedly bright, despite the damage here and there to the corn and cotton crops by the heavy rains. This is largely more than counterbalanced, so far as the South as a whole is concerned, by the development of manufactures, affording employment to many thousands of people that in former years were idle, and by the increase in the production of fruits, vegetables, &c. The following special reports to the MANUFACTURERS' RECORD will prove of interest in this connection:

BRIGHT AND PROSPEROUS TIMES IN KENTUCKY.

LOUISVILLE, KY., September 6.—This has been a year of milk and honey in Kentucky. Not for many years have there been such generally fine preparations and splendid yield of crops of almost every description, and in the same time the improvement in business at the commercial centers is almost unparalleled. The Hon. C. Y. Wilson, commissioner of agriculture and statistics, gives some interesting figures as to the crop reports to-day. His reports are from widespread localities, and give a fair indication

of the general tendency. The following will show comparative statements of the acreage of the three principal crops for three years:

Tobacco.—Number of acres planted by 1,252 farmers 1886, 12,644; 1887, 8,192; 1888, 13,564.

Wheat.—Number of acres sowed by 1,272 farmers 1887 35,386; 1888, 36,490.

Corn.—Number of acres planted by 1,272 farmers 1887, 43,474; 1888, 49,480.

The general average of the tobacco crop is stated to be 101, wheat 88, corn 105.

The wheat crop made the largest yield per acre ever known in the State. The berry is large and flinty, and comparatively free from the diseases which are often so fatal. Some damage was done by excessive rains where the crop was yet in shocks or had been badly stacked.

Corn was later than usual in planting, and great annoyance was caused by worms and insects, but it was well cultivated, and at the present date is the most promising crop ever known in the State.

The condition of the tobacco crop is placed at 100, which may be reduced ten points by the recent excessive rains, which have caused the sloughing of leaves; but it may be safely stated that an open September and frost not earlier than the 10th of October will insure a large yield. There is an idea that the quality of the crop will not equal that of 1887, of which a large amount is yet held by planters and dealers in the State. In either event the result will be profitable to Kentucky.

Of the other crops, clover was largely killed by the mid-summer drouth. Grass was never looking better, and full pastures promise well. Meadows are very short, and both timothy and clover hay will be scarce. The oats and rye crop are about an average. The fruit crop is the best for years, but apples are falling off badly and are being specked by rot. Stock, generally speaking, is in splendid condition, but hogs are scarce, owing to the prevalence of cholera in some localities, where it has been very fatal. Garden and dairy products are a fall average except, perhaps, Irish potatoes, which Mr. Wilson estimates at from 80 to 85 per cent. of the average yield. This is a very important crop in Kentucky, where a great many are produced for export purposes. The county of Jefferson, in which Louisville is situated, shipped last year 150,000 barrels.

The berry crop was very fine and, what is better, was largely utilized by canning factories which have been springing up recently. The general expectation is that the year's crops all around will be larger than the average and excellent in condition, and the consequence is that there is a buoyant and a strong feeling all over the State.

The prospects for the fall trade in the city of Louisville, which is a good indication of the entire State, have never been so good in the history of the city. While the volume of trade in nearly every city in the United States has been showing a decrease during the summer, it has been steadily increasing in Louisville, and the clearing house reports for the first six months of the year show a ten per cent. increase over the same period of the previous year.

The fall trade has already opened to a considerable extent, and every line of trade has all that it can do to fill orders. The woolen mills are weeks behind and running to their full capacity, while during the past ten months the capacity was increased twenty-five or thirty per cent. The jeans clothing houses are several months behind with their orders, although every one of them has largely increased in capacity, and two of them have recently moved into very large and expensive buildings, in which they have placed all the most modern improved machinery for the increase of their facilities. The dry goods trade, taking it altogether, has been larger than was ever known before; the same is true of groceries. In every line the most extensive preparations have been

made, yet they have not been sufficient to meet the full demand.

The tobacco market is showing an increase over the past year, not in the number of hogsheads offered, because the crop of 1887 was a short one, but in the percentage of the whole crop marketed here, and it is confidently believed that this year Louisville will handle two-fifths of the entire Western crop.

The increase of railroad mileage in the State has had the effect of largely increasing trade in almost every section of the State. New towns are springing up, new enterprises are being started, and the outlook for the coming season is better than has been known for years. YOUNG E. ALLISON.

INCREASING ACTIVITY.

ANNISTON, ALA., Sept. 8.—Reports to the Hot Blast from this and adjoining counties indicate much more than average crops. Correspondents in some sections write that they are better than for years past. Cotton has not suffered as much in this locality from recent rains as in the lower part of the State. Farmers in this section give their attention almost entirely to cotton and corn, and the industrial towns growing up have difficulty in securing vegetables, fruits, &c., a condition of things that our native farmers have not yet taken advantage of. Skilled and experienced truck farmers could make fortunes supplying Anniston and surrounding towns with small fruits, vegetables, poultry, etc.

Merchants are getting in their fall stocks and business is beginning to brighten up. There will not be much doing until later in the fall. The season promises to be a good one. Real estate is looking up. There has not at any time been the depression in prices that some places have complained of. While transfers of property have not been frequent, prices have kept up, the owners preferring to hold rather than make concessions in price. There is more activity now and considerable real estate is changing hands every day.

FINE CROPS IN KENTUCKY.

WINCHESTER, KY., September 5, 1888.—Crops in this section have been better this year than common. The wheat crop was varied—some fields producing a fair yield of good quality, and others, where the plant was winter-killed, being deficient in both quantity and quality. Upon the whole, the crop was not a good one. Corn, hemp and tobacco are our great staples. Corn is producing a greater yield this year than ever before known. The acreage devoted to hemp is larger than usual, and the product will be heavy and of good quality. Tobacco is not in as good condition as could be wished. A partial failure of plant beds last spring caused a deficit in plants. A protracted dry spell about setting time caused late planting, and an early frost will catch much of it. The recent wet spell has also injured it to some extent. The crop of melons and "garden truck" is unprecedented. The yield of blue-grass seed, which is an important feature of farming in this section, was heavy and of very superior quality. The hay crop was light. Grazing was never better than at present. C. E. LYDDANE, Local Editor Winchester Democrat.

PROSPEROUS, CONTENTED AND HAPPY.

GLADE SPRING, VA., Sept. 8, 1888.—Wheat was greatly injured by the spring frost, still the yield is greatly above the average, on account of the immense acreage planted last fall. We are now plowing for wheat.

Corn will be plentiful; still the drouth of June and July cut the crop short, but there was more acres in than has been in years. There will be no corn to ship.

Oats.—Fine crop of grain. Straw very short, owing to the drouth.

Tobacco.—But little planted in this vicinity; what there is is very fine, and will be splendid if the frost don't catch it.

Potatoes.—Crop rather short, but what there is is very fine.

Tomatoes.—Splendid crop.

Fruit.—None. Apples and peaches very scarce.

Rye.—Very fine in the mountains near here. None raised closer than 15 miles. All for home use.

Business Outlook.—Our merchants are buying largely, and the tone of business is exceedingly good for a presidential year. This town is improving very rapidly and our merchants are confident of a big fall trade. Altogether, we are prosperous contented and happy, and will be happier if we succeed in electing Cleveland, Thurman and Buchanan. W. H. TOMNEY.

OUTLOOK FLATTERING

AUGUSTA, GA., Sept. 3, 1888.—Cotton crop in Augusta territory, though held back by disposition to fight bagging prices and by late season, is the best for years. Acreage about same as 1887-8, but yield promises better. Overabundance of rain during the past 24 hours, but not enough to have appreciable damaging effect.

Upland corn not good as last year, but bottom corn flourishing. Last season floods in the Savannah valley curtailed corn yield, but this year the crop will exceed last year's output, notwithstanding poor upland corn, the bottom crop having the effect of more than equalizing damages to crop in uplands, caused by early drought.

Augusta increased her mercantile business \$9,000,000 in 1887-8, and expects to do large business the coming season. Over \$2,000,000 worth of cotton was handled, and factors expect to receive 350,000 bales this season, and business in every branch of trade has a bright future promised.

Augusta's cotton manufactories are running full time and prospering. \$500,000 in improvements have been added to them.

The outlook in Augusta is flattering. The Exposition, which opens next month, has put on foot preparations for the biggest time in the city's history. T. D. MURPHY.

FAIR AVERAGE CROPS.

ROME, GA., September 3, 1888.—The late dry weather has cut the cotton as well as the corn crop off to a certain extent, still we consider the crop a fair average one. Our merchants anticipate a good fall trade.

ROME LAND CO.

INDICATIONS FOR BUSINESS FAVORABLE.

SHEFFIELD, ALA., September 3, 1888.—Crops through this section would have been the best in years but for the damage done by recent rains, and at present this is hard to estimate, but it is not believed will exceed 10 per cent. Indications of business activity are extremely favorable.

G. H. PINDER.

CROPS INJURED BY HEAVY RAINS.

WEST POINT, MISS., Sept. 5, 1888.—A few weeks ago we had the finest prospects in this section for bountiful crops and a fall business that we have had for years. All is now changed. The unusual fall of water has cut off the crop, perhaps 25 per cent., if not more, and the rains do not yet seem to be over. A heavy wind during the month of August blew down a great deal of corn. Much of this is rotting. The probabilities are, however, that with the old corn on hand, enough new crop will be saved to do through another year. If the rain continues a week or two longer the cotton crop will be injured at least 50 per cent. A great deal of hay will be lost. Peas and sweet potatoes are fine and there will be a bountiful yield. A very extra fruit crop has helped out considerably. L. T. CARLISLE.

GOOD CROPS AND FINE OUTLOOK.

ROANOKE, VA., Sept. 7, 1888.—In my opinion the crops are much better this year than they have been for several years. The wheat crop is especially good, and the yield much better than it has been for many years. As to the outlook for business, I think that we have a very bright prospect before us in all classes of business. Our "magic city," Roanoke, is still growing and prospering; she has a bright prospect for the future. S. W. JAMISON.

FARMERS AND MANUFACTURERS DOING WELL DESPITE SMALLER CROPS.

SPARTANBURG, S. C., September 6, 1888.—In Spartanburg county the crop outlook is about as follows:

Wheat was nearly a failure, the yield being about a fourth of a crop, and quality poor.

Oats are about an average crop.

Corn promises 15 per cent. more than last year. No corn was shipped from the West last year.

Cotton is better than last year, say 10 per cent.

We have had rainy weather for 10 days, and if it should continue and overflow the lowlands corn will suffer.

The business outlook is favorable. Farmers are not as much in debt as usual and are in good spirits. The merchants are quite active, and expect a large trade this fall.

Our cotton mills are on a boom. They are running to their full capacity. When the new mills now building are finished our county will consume much more cotton than is produced in the county.

Our mechanics have all the work they can do. They are quite busy, with much work ahead.

CHAS. PETTY.

GOOD OUTLOOK.

EASTON, MD., September 4, 1888.—Our crops are, with few exceptions, flattering. Farmers are greatly encouraged, and consequently trade of all kinds, and especially our merchants, are looking forward to increase of business this fall. WILSON M. TYLER, Editor Gazette.

SHORT CROPS, BUT GOOD TIMES.

RALEIGH, N. C., September 6, 1888.—As far as I can gather the cotton crop in the region tributary to Raleigh, it is about 15 per cent. short. The corn crop is poor also, but, nevertheless, it is estimated that fall business will amount to about an average. The organization in this city of the "Chamber of Commerce and Industry," a body composed of many of our most substantial and most progressive citizens, and formed for the purpose of encouraging and promoting improvements of every kind, will doubtless tend to advance mercantile and manufacturing interests in this section very materially.

J. J. MCKEE,

Editor News and Observer.

BUSY, PROSPEROUS TEXAS.

DALLAS, TEXAS, Sept. 4, 1888.—From nearly every section of our great State come the most glowing accounts of the crop prospects. Our rains have been general all over the State, and abundant—too much in some sections. Our wheat and oat crop was good, our corn crop one of the largest and best we ever raised, and the prospect is good for a large cotton crop. The outlook for fall business is fine; in fact, we are even now entering into a very busy, prosperous season. The State is daily receiving prospectors, home-seekers and investors from other States, and we are expecting a large movement of immigration here this fall and winter. The Panhandle country is rapidly filling up.

The streets of Dallas are crowded every day, building is rapidly going on, and it is bustle and business on every hand. We have never seen anything equal to it in Texas before, and have been in this city fourteen years.

E. G. RUST.

MONEY SCARCE, BUT PROSPECT GOOD.

GREENSBORO, N. C., September 7, 1888.—In this section of North Carolina the crops have been generally above an average. Wheat threshed out well. Corn is very fine, and tobacco is curing well, and a fine crop will be gathered with favorable weather and a reasonable withholding of frost. The fruit crop was much better than for years, and as large quantities of all kinds of dried fruits are shipped from here, including blackberries, it greatly improves the fall trade at the stores. Altogether, we think the prospect for a good fall better than last year; still, money is very scarce.

KNOGH & BOYD.

PROSPECTS FOR BUSINESS NEVER BETTER.

APALACHICOLA, FLA., Sept. 5, 1888.—This is not an agricultural district—that is, agriculture is not pursued to an extent sufficiently large to make any reports upon. Our district is a lumber manufacturing point, principally. Of new enterprises started I notice the repairs upon the Brash saw mill as completed. The firm, Wise & Morgan tell me they will be cutting lumber within a few days. The T. T. & G. Railroad Co. have put up a new planing mill at Carabelle, this county. P. W. Belleau and H. W. Johnston have completed and put in shape Belleau Opera House, the seating capacity of which is 700. It is one of the most attractive theatres in the State.

The prospects for business this fall and winter were never better. Our merchants are laying in large stocks to meet the expected large trade. Our two large oyster factories will soon be ready for the fall opening, and our fishermen are getting things in shape for a busy season. Altogether the prospect is very flattering, indeed.

H. W. JOHNSTON, Ed. Times.

MOST FAVORABLE OUTLOOK FOR YEARS.

FINCSTLE, VA., Sept. 5, 1888.—The crops in this (Botetourt) county have been uniformly good this year, and the outlook for business is decidedly more favorable than for many years past. Our fruit and vegetable canning business is booming, this county leading the State in this industry.

M. W. CAMPER.

LESS IN DEBT THAN ANY TIME SINCE WAR.

CORINTH, MISS., Sept. 4, 1888.—The crop outlook for this section is good. The storm two weeks ago did some damage to corn, and caused some fears as to its effect on cotton, but the promise now is for an average crop of both corn and cotton. The late copious rains are having a fine effect upon peas, sweet potatoes and turnips, and will cause a fine growth of grass for hay. The county is safe. The business outlook is good—better than usual, because we have not only good crops, better and more stock and plenty to eat, but are much less in debt than ever before since the close of the war, and there is more money in the hands of the people.

J. M. MARTIN,

Ed. Corinth Herald.

FLATTERING PROSPECTS FOR BUSINESS.

GREENDALE, KY., Sept. 5, 1888.—I have been a correspondent of the Department of Agriculture at Washington for the past 40 years, and here give you from my report of 1st inst. a synopsis of it, being the average condition of the crops when harvested on September 1: Corn, 110; wheat, 105; rye, 100; oats, 75; barley, 100; Irish potatoes, 75; sweet do., 85; tobacco, 100; sorghum, 100; apples, 50; peaches, 100; grapes, 100; hogs number for fattening, 75; condition, 80; hemp, 105; cattle, 100; horses, 100; sheep, 100. It will be seen that only oats, potatoes, apples and hogs fall below a full crop, which means a large surplus, plenty of money and brisk business. The wheat crop has gone to market, and although the price was low, the large crop has about doubled the ordinary surplus and has made money easy with farmers. The large corn crop, whether fed to stock or sold as grain, will add largely to the circulating medium. My report on tobacco is too low; 110 is nearer correct. Our prospect for good business is flattering.

R. J. SPURR.

BUSINESS OUTLOOK UNUSUALLY ENCOURAGING.

TAZEWELL C. H., VA., Sept. 5, 1888.—The yield of crops in Southwest Virginia is above the average, while in this (Tazewell) county it is above par. Vegetation of all kinds is rank and blue-grass knee high. A beginning in truck farming has proven enormous yields. The outlook for fall business is unusually encouraging. New railroad development is one great factor. About 15,000 beef cattle will be shipped from Tazewell. Manufacturing is beginning and proves profitable. CLINCH VALLEY NEWS.

CLEVELAND'S BRIGHT PROSPECTS.

CLEVELAND, TENN., September 3, 1888.—The corn crop through this section bids fair to give the most abundant yield the farmers have enjoyed for ten years. In some localities, however, recent winds have damaged the crop considerably, but this is not general. The cotton crop, which has become the surplus crop of this and adjoining counties, will surpass any former crop by at least 25 per cent., both in acreage and yield. Recent rains have retarded opening, but with a reasonably late fall and usual fair weather, frost will not cut the yield in the least. The potato crop is also above the average; so also is the turnip crop.

The outlook for trade this fall is very fair. Our merchants are buying larger stocks than they have bought for years, and for once we believe that a presidential election will fail to play an important part in fall trade. Goods being purchased are of better grade than formerly, which is conclusive evidence that the people are in a more prosperous condition.

V. A. CLEMMER.

SOME UNEASINESS.

CANTON, GA., September 3, 1888.—Up to last week crops generally throughout Cherokee county were never better, and promised very large yields. Especially was this true of the corn crop. But last Friday a rain set in, and it has been raining more or less since, damaging cotton to some extent and hindering the pulling of fodder. It now looks as if there will be but little fodder saved. Cotton, however, will be very good anyway, and so will corn. If we have good crops, and I believe we will, trade will be very good; but there is more or less uneasiness on the part of our merchants on account of the uncertain movements of the Farmers' Alliance. The great flurry over the "bagging trust" is causing some uneasiness among the merchants. If the farmers refuse to sell their cotton now it will seriously affect all trade. But, notwithstanding all these things, the country was never more hopeful nor the people more cheerful.

BEN F. PERRY, Ed. Canton Advance.

DAMAGE TO CROPS.

CHATTANOOGA, TENN., September 10, 1888.—There can be no mistaking the result of the past two weeks' rains that have prevailed upon the crops of the South. In many, many years the prospects for very abundant crops never looked brighter than they did two weeks ago. A week ago last Tuesday the rains commenced and have continued every day up to the present writing, and as far as heard from have been quite general all over the South. Through this particular section the damage has not been as great as is reported through the cotton belts, but still there is some damage to be recorded through here. Farther South it is fortunate that the rain occurred at the present time, as the cotton as a general thing is not sufficiently advanced to be damaged as much as it would have been had the rains come a month or six weeks later. Taking the cotton situation into consideration, there can hardly be a damage of over 10 to 15 per cent. to any of the crops in any section of the South, and when it is taken into consideration that the entire Southern crops were far above the average, the present damages so far will not any more than bring them down to average or perhaps a little more.

OCCASIONAL.

AN EXCELLENT OUTLOOK.

FLORENCE, ALA., September 3, 1888.—The crops of this section are universally good. Corn, oats, wheat, rye, potatoes, cotton, fruit and other vegetables are more than an average everywhere. Our merchants report business as excellent, partly attributed to the excellent crops, and partly to our increased population. Florence is growing rapidly, owing to the location of manufacturing plants of diversified kinds here, which makes business good in all branches. We anticipate a lively trade here this autumn and winter.

E. B. COMLY.

GOOD OUTLOOK FOR BUSINESS.

OWENSBORO, KY., Sept. 3, 1888.—In this (Dairies) county, the wheat yield was immense, in many cases the yield per acre being double that of the same land in other years. The acreage was probably 95 per cent.

The oats crop was short, there being no more than 75 per cent. in acreage and yield.

A full crop of tobacco was planted, and it was in splendid condition until August 20. Since that time 25 per cent. of the crop, principally on low lands, has wilted in the field, and the farmers say is worthless. This condition was never known to any extent before.

The corn crop has had a most favorable season, and the crop will be the largest ever known.

The fruit crop is far above an average, yield being very heavy and quality fine, except peaches.

The outlook for fall business is good, some merchants say splendid.

A building boom has been going on in this city for several months. Every carpenter, builder, brick-layer, mechanic, hod-carrier and laborer of every sort has been busy, and a great many skilled workmen have been brought here from other places.

All local manufacturing interests are busy, some being behind with orders.

C. T. SUTTON.

SPLENDID CROPS.

WINCHESTER, VA., September 5, 1888.—Wheat above the average in many portions of the county; better than any crop for 20 years. Oats excellent. Corn a magnificent crop. Prospects for good fall business very encouraging. Shenandoah Valley Land & Improvement Company, of this city, composed of young, energetic business men, are active in attracting attention to our fine lands. Parties will be sent descriptive lists of properties by applying to J. Clifton Wheat, Jr., secretary, Winchester, Va.

WILLIAM REILY.

FLORIDA'S EXPECTATIONS.

ORLANDO, FLA., September 4, 1888.—The fruit crop is the main one of this section of Florida. The orange crop will be the largest the State has ever known. It is believed the yield of this (Orange) county will reach 350,000 boxes, while those whose opportunities to investigate are good estimate the coming crop of the State at 3,000,000 boxes. Gardens are already being planted for winter vegetables, and more attention is given to truck farming than ever before. Yellow fever in other parts of the State has put a present damper upon business, but we look for a prosperous fall and winter trade, and hope to get an addition to our population of ten to fifty thousand fruit growers and truck farmers.

MAHLON GORE.

LIGHT CROPS.

GRAHAM, N. C., September 4, 1888.—Crops of all kinds are light in this (Alamance) county and section. The wheat and oats crops were about a half or two-thirds crop, and the same may be said of the corn crop. The tobacco crop will be at least one-fourth short. So trade will be proportionately small and inactive in the mercantile business. The manufacturing interests promise good healthy activity.

J. D. KERNODLE.

PROSPECTS GENERALLY GOOD.

ROCKINGHAM, N. C., September 3, 1888.—One-half of this county below average crop on account of drought; the other half seasonable and full average; adjoining county west barely average, ditto east full, that north barely average, south fair crops. Prospect for business generally good.

H. C. WALL.

BAD CROPS, BUT EVERYBODY HOPEFUL.

HENDERSON, N. C., Sept. 4, 1888.—Tobacco is sorry for most part throughout the entire "bright belt" tributary to this and neighboring markets. Upland land is almost a failure, that planted forward particularly. Low grounds and late planting is better, but nothing like a good crop will be

made. Cotton is small but well fruited. The fruit and melon crop was a good one.

While the crops are not very good the business outlook is by no means gloomy. The farmers made splendid corn crops and realized good prices for their tobacco last season. The merchants are cheerful and hopeful, and every preparation is making for a good fall trade, which is expected.

THAD R. MANNING.

AN AVERAGE CROP.

HENDERSON, KY., Sept. 4, 1888.—In this (Henderson) and contiguous counties, the crop mostly relied upon by planters is tobacco. The soil here is adapted to the heavy leaf, and the yield is usually prolific. Fortunes have been made here by planters and dealers—the handlers reaping the most money.

Our farmers grumble a little at the late heavy rains, but say that tobacco, corn and wheat (our main staples) will supply an average crop. And this condition holds good with several contiguous counties, as per report of their county papers. Our mercantile business has been lagging a little, but is now on the increase, and merchants will lay in good stocks.

BEN. HARRISON.

Mississippi in the March of Progress.

[Special correspondence MANUFACTURERS' RECORD.]
MERIDIAN, MISS., August 24, 1888.

On the 15th of this month J. C. Lloyd B. F. Quorles, J. W. Rogers, I. I. Barber, T. H. Woods, J. S. Solomon and R. P. Williams, all of this place, purchased the entire estate of Mr. T. A. Ragsdale at a cost of about \$260,000. Said estate consists of a splendid cotton compress, hundreds of town lots—business and residence—and hundreds of acres of suburban property. It is the intention of the purchasers to at once build two or more "dummy lines" through the entire property, and to improve the property and put it in splendid condition at once. The project will involve large outlays of money, and it will be perfected with a liberal hand. Vigorous efforts will be made to establish manufacturing enterprises, and liberal aid will be extended all persons desirous of engaging in such business in Meridian.

From a struggling town of 4,000 inhabitants six years ago the place has grown into a live, pushing, vigorous young city of 12,000 to 14,000 inhabitants, with a perfect system of water works; streets lighted by gas, and same to be further illuminated by electric light; the largest free public school in the State, with \$30,000 just voted to erect suitable buildings to accommodate its 1,000 pupils, and a first class market-house for which city bonds to the amount of \$15,000 have been appropriated.

The chief shops of the Q. & C. R. R. system are here, and with their hundreds of employees make a large town itself. The largest mercantile establishment in the place sells one and a half millions annually, and a sash and blind factory sells more goods than any other establishment of the kind in the Gulf States. There are many thriving manufacturing enterprises already firmly planted, and the number is daily increasing. There are three banks—two national—with capital of about \$500,000. Money is easy and trade good the year round, and during the cotton season every street is crowded. The town will handle 100,000 bales of cotton the coming season. There are five railroads crossing here, and two more being constructed, which, when completed, will give us seven railroads in and through our city.

Except Birmingham, perhaps, no town in the South has made such growth in the past five years, and no place has now more flattering prospects of future progress. The town has never been cursed with a boom. It has steadily, year by year, grown and flourished, and at no period in its history has it had such growth and development as it is now enjoying.

The health is exceptionally good, the death rate being only about 8 to the 1,000.

PROGRESS.

A Gigantic Enterprise.

The Great Steelton Iron and Steel Works at Baltimore.

One of the greatest, if not the greatest, industrial enterprise now actively under construction in America is the gigantic iron and steel plant which the Pennsylvania Steel Co. is building near Baltimore. This is a strong statement, but the facts will support it.

The Pennsylvania Steel Company is one of the greatest iron and steel making concerns in this country. It is a large importer of foreign iron ore, used in making Bessemer steel, and has imported many thousands of tons through Baltimore. Appreciating the importance of having furnaces and steel works on the Atlantic coast, that the cost of freight on the ore might be lessened and water transportation be secured for its product, the managers of this company made a careful investigation as to the relative advantages of all the leading Atlantic ports for their business. Baltimore was finally selected, and no greater endorsement of the superior advantages of this city for manufacturing purposes could be asked. A tract of land a few miles below the city, embracing 1,200 acres, with a fine frontage on the Patapsco river, was selected and the work of preparing to build this great plant was then commenced. Some of the usual delays in carrying out extensive undertakings of this character were experienced, and especially in securing the right of way for the railroad which is to connect this place with the Baltimore & Ohio and the Pennsylvania systems. As rapidly as possible, however, the work has been pushed forward, and a visitor to Steelton—the name of this new town—can now form some conception of the magnitude of this enterprise. The town has been laid off, a large number of brick houses built, churches and schools established, and a good foundation laid for a great industrial center. Over 700 men are even now at work at Steelton. Two furnaces have been nearly completed, and these will be followed by two more in the near future and others later on. These furnaces have been built with the view to making them the largest in the country, and their estimated output is 250 to 300 tons of iron a day each.

It is said to be the intention of this company to eventually build 8 furnaces of 250 tons each daily capacity, a Bessemer rail mill with a daily capacity of 1,000 tons, works for making steel plates for ship building and other enterprises, possibly including the construction of steel steamships. When completed it will be one of the most perfect as well as one of the greatest iron and steel plants in the world. The pig iron will run directly from the furnace in its molten state to the rail mill. Every improvement known to modern science for reducing the cost of steel making will be introduced regardless of expense. Between 3,000 and 4,000 men will probably be employed in these works when completed, and this giant plant will attract many others until the shores of the Patapsco are lined with great iron, steel and ship-building works.

We may gain some idea of the vast business that these works will develop from a few figures. When the 8 furnaces which it is intended to construct shall have been finished, their consumption of ore, coke and limestone and their production of pig iron will be almost beyond comprehension. They are expected to make 2,000 tons of pig iron a day. This will require about 4,000 tons of ore every day, or two full steamer cargoes daily, averaging 2,000 tons each. Of coke and limestone vast quantities will also be needed. The making of 2,000 tons of iron a day would necessitate the handling of upwards of 12,000 tons of

material counting the inward freight of coke, ore and limestone and the outward freight of iron. This would mean the equal of 600 car loads of 40,000 pounds each daily, or 3,600,000 tons or 180,000 car loads a year. In freight tonnage this would be greater than 100,000,000 bushels of wheat. These figures enable us to form some conception of the magnitude of this great enterprise. But even in this way we do not get a full understanding of it, for in addition to these furnaces there are to be steel rail and plate works, machine shops and kindred industries.

Of course it will be several years before this plant is fully completed, as such enormous works cannot be hurried through in a month or in a year, but even now a vast traffic is being developed; hundreds of hands are at work, and before the present year ends two of these furnaces, it is expected, will be in blast turning out 500 tons of pig iron a day. The people of Baltimore have not appreciated the magnitude of the Steelton works nor the tremendous influence which their location here is destined to have upon the future of this city. They mark the beginning of a new era not simply in the history of this city, but in the history of the iron and steel trade of the country. Here is to be worked out under more favorable conditions than those possessed by any steel works now in operation in this country, the question of producing steel rails and steel plates for ship building purposes, and other kinds of steel at the minimum cost.

Webster's "Vacuum" Feed Water Heater and Purifier.

This invention consists of an improved method or process and mechanical device for purifying water for boiler feeding or other purposes, by which impurities contained in water are, it is claimed, removed in a more economical way, and more thoroughly than by the present well known water purifiers, where the heat is imparted

chamber and condensing chamber, water, steam, air and overflow pipes, as shown in cut.

The outer cases are divided into three compartments, which are designated condensing chamber, vaporizing or purifying chamber, and the sediment chamber.

The sediment chamber is provided with discharge pipes, with suitable stop cock and check valve.

The purifying chamber is supplied with the steam supply pipe, having a branch pipe provided with a safety valve and leading therefrom to the discharge pipe, and the said chamber is also provided with an overflow pipe, also leading to the discharge pipe.

The pump connection represents the delivery pipe which leads from the condensing chamber to the pump.

The purifying chamber is formed by means of the front partitions extending entirely across the chamber and down into the sediment well.

In the purifying chamber are located a series of perforated trays or plates, and the highest plate communicates with the distributing device.

In the sediment chamber are arranged a series of inclined plates; these plates are inclined in order to insure a perfect precipitation of sediment, and also to prevent any agitation of the same.

The cold water inlet pipe is for supplying water to the "purifier" and is provided with a cock or valve, and this pipe enters the condensing chamber at the top of the casing and supplies the water through the pipes in the condensing chamber to the distributing device.

Above the purifying chamber and below the pipes in the condensing chamber are arranged a series of plates or steps, forming an inclined passage to allow vapors to pass freely from the vaporizing chamber into the condensing chamber, but to prevent the condensed vapors from returning into the vaporizing chamber.

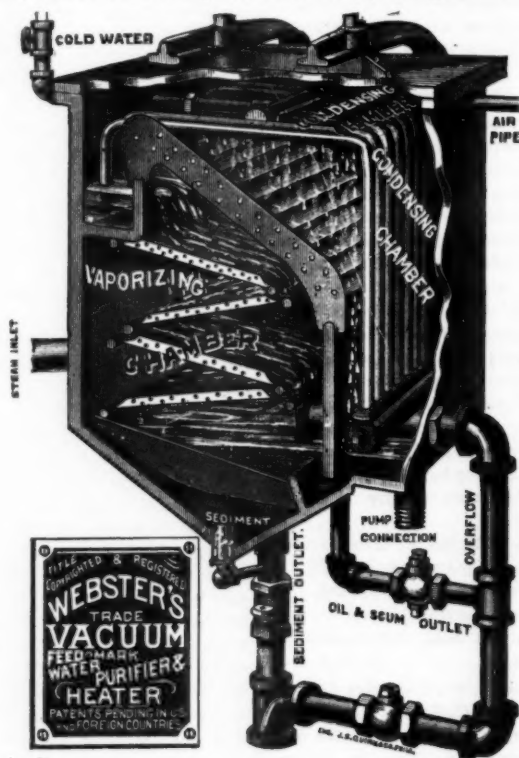


FIG. 1.

to the water through the medium of copper pipes by radiation, and the molecules of the water are pressed together.

Webster's "vacuum" feed water heater and purifier consists of a casing comprising an outer vessel, or shell, having located therein a vaporizing or purifying chamber, a condensing chamber, a sediment chamber or receptacle, a delivery pipe communicating with the vaporizing or purifying

An air outlet is provided by means of which the air, liberated from the water, is withdrawn and prevented from accumulating in the condensing chamber.

A branch pipe leads from the discharge pipe and a water gauge communicates with the discharge pipe, the purpose of which is to ascertain the amount of water in the purifying chamber.

All of the inside parts are accessible

and can be removed in a few minutes when desired.

The operation of this feed water heater and purifier consists in converting the water to be purified into vapors, and re-converting the vapors back into a liquid state by the water next entering to be purified, preventing any loss of heat units.

The water is supplied to the purifying

densing surface, thereby becoming liquified before entering the delivery pipe.

The pure water remains above the impurities and flows through the delivery pipe.

The grease and light impurities are prevented from passing out with the pure water by the partition wall extending below the level of the delivery pipe, which entirely prevents them from entering the

feed water heater to produce the best results possible.

How the water is purified.—By the latent heat of the exhaust steam converting the water which enters into the "vacuum" feed water heater into vapor of low tension, the effect of which is the disintegration of the vaporized water and the liberation of the impurities, grease and scum.

Cleaning the purifier.—The accumulation

ment, you will agree to pay us our bill. If not accepted by you at expiration of said trial, you will agree to return the "vacuum" feed water heater and purifier to us f. o. b."

THE American Glossary of Architectural Terms, Illustrated, by Geo. O. Garnesey, editor of the National Builder, Chicago, is a work of much value to all builders and others who need to understand the meaning of all architectural terms.

THE baby is ruler of the household, and, as is befitting, Babyland is the official organ of the baby's kingdom. It is a charming little monthly of eight pages, filled with pictures to please baby's eye, and little jingles and stories to please his ear. It is a marvel of enjoyment for 50 cents a year. D. Lothrop Co., Boston, will send a sample for five cents.

Combination Saw Bench.

The accompanying illustration shows a combined cutting-off saw, rip saw, mitre sawing, bevel sawing and dadoing machine. It is invaluable in making window frames, mitering heavy mouldings, ploughing and grooving window sills, furniture work, &c. It does the work of four or five machines, and occupies the space of but one. The driving belt is self-straining. It is not complicated, and can be changed from one use to another in one minute.

The saw mandrel is placed on a carriage (under which are rollers to lessen the friction) and travels on ways. The saw is drawn toward the operator by the foot treadle, which allows the operator the use of both hands to handle the stuff, by which arrangement he can accomplish a very large amount of work. The mandrel is raised and lowered by means of rack and pinion to adjust the saw and dado head to different thicknesses of work.

A dado or grooving head is furnished with the above machine when ordered, and is very valuable in a planing mill. It is made of steel or brass, eight inches in diameter, and has steel bolts with sleeve nuts. The bolts allow the head to open

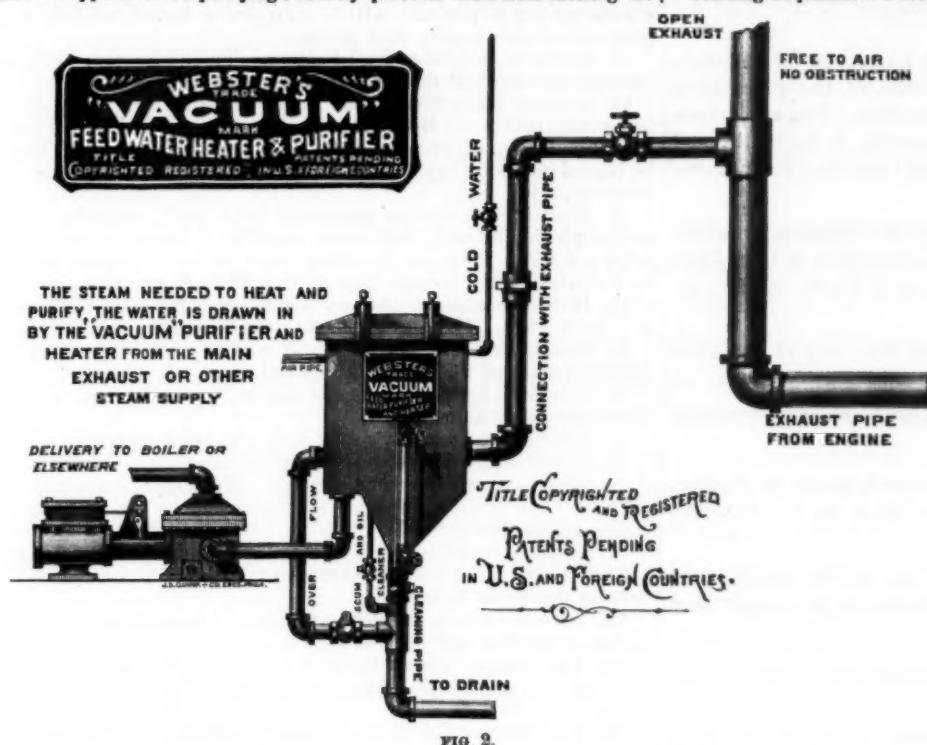


FIG. 2.

chamber, in which it is subjected to the action of heat, which removes the impurities from the water, and causes the said impurities to fall or descend into the sediment well, the heated vapors rising enter into a condensing chamber, and the moment they come in contact with the condensing surface all of the heat units in the vapors are extracted therefrom and imparted to the entering volume of water before it enters the vaporizing chamber, and the vapors then drop in the form of liquid at the highest temperature at which it can remain as liquid, and by bringing the water in contact with the steam in the chamber below atmospheric pressure, the water is converted into vapor with a less number of heat units than would be required if pressure above the atmosphere was allowed to accumulate therein.

Water is admitted by means of the supply pipe, and steam is drawn into the "vacuum" heater through the branch pipe communicating with the steam supply.

The water passes through the pipes to the distributing device, and from thence to the perforated plates or trays, the steam passing through the said water in its passage over and through the trays vaporizing the water, removing the impurities therefrom, which fall upon the inclined plates in the sediment chamber, and are prevented from agitation by the said plates.

The heated vapors rising above the trays come in contact with the cold water supply pipes, are thereby condensed, fall in a shower upon the inclined plates or steps, and are directed thereby to the delivery pipe. The air which is liberated from the cold water rises to the top of the condensing chamber, and is drawn out through the air pipe.

By having the walled partition forming the purifying chamber extending downward into the sediment chamber, below the level of the water, the vapors cannot pass out of the delivery pipe before first passing through the vaporizing chamber and then coming in contact with the con-

pump. The discharge or grease and scum pipe leads from the bottom of the inclined plate nearest the delivery pipe and is especially adapted for removing grease or scum which may accumulate by simply opening the cock. In case too great an amount of water should accumulate in the purifying chamber, it will pass out through the overflow pipe to the discharge pipe.

The advantages claimed for Webster's "vacuum" feed water heater and purifier are "convenience of application, as it can be placed in any position, either nearby or at any distance from the exhaust.

Where condensing engines are used, the water from the hot well can be utilized in connection with the exhaust steam from the pumps and small engines for raising the temperature and purifying the feed water for the boilers.

40 per cent. more water can be heated and purified, with a given quantity of steam, than can be by any coil or tubular heater, in consequence of the "vacuum" heater working below atmospheric pressure.

Saving room, as it occupies but little space—a 500 horse-power "vacuum" feed water heater and purifier occupies about 2½ feet in length, 2½ feet in width and 4 feet in height, other sizes being in proportion.

Saving power, as the back pressure is relieved by drawing sufficient exhaust steam to vaporize the amount of water allowed to enter into the purifier.

Saving water, by liquifying the exhaust steam which is drawn into the purifier.

Saving coal, by feeding the boiler with purified water, at 200 degrees and over, in less than one minute from starting of the engine.

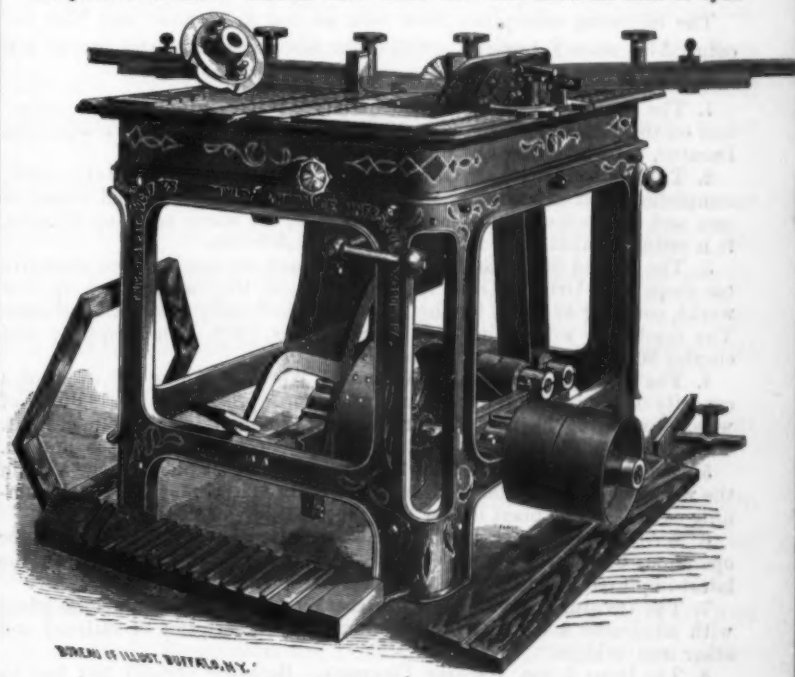
Saving expense, by obviating the necessity of boiler fluids or compounds, as the boilers are kept free from scale by feeding purified water at the highest temperature.

Saving labor, as the party having the boiler feeding in charge has less work to do after he has adjusted the "vacuum"

of sediment can be removed in a moment by merely opening a cock. All parts accessible are readily cleaned.

Webster's "vacuum" feed water heater and purifier can be used in connection with coil and tubular heaters where a higher degree of temperature is desired.

The price of Webster's "vacuum" feed



COMBINATION SAW BENCH.

water heater and purifier is lower than any other in the market, considering the results produced."

Messrs. Warren Webster & Co., the manufacturers, 491 N. Third street, Philadelphia, Pa., say: "We respectfully solicit your order for one of our "vacuum" feed water heaters and purifiers under the following conditions, namely, that if after a trial of 30 days you find the advantages gained sufficient to warrant the invest-

ment from 5-16 to 1½ inches, or hold a cutter 5-16 of an inch, or any width to 1½ inches, without loosening the nut on arbor. It is provided with spurs, so as to cut lengthwise or crosswise of the wood, and can be used for jointing, rabbeting or heading blinds, and grooving of all kinds of work. Five sets of cutters are furnished with each head.

Rowley & Hermance, Williamsport, Pa., are the manufacturers, and will furnish any further information desired.

DECATUR, ALA.

POPULATION.—In March, 1887, 1,200; in July, 1888, 7,000; an increase of over 500 per cent. in sixteen months.

TRANSPORTATION.—Thirty navigable rivers will be accessible by steamers from the wharves after the completion of the government works at Mussel Shoals, on the Tennessee river, in 1889. Two trunk lines of railroad are in operation at Decatur—the Louisville & Nashville, and the East Tennessee, Virginia & Georgia systems; and two more are in course of construction.

MANUFACTORIES.—There are already in operation, or nearly completed, forty manufacturing enterprises that will employ at least 3,500 skilled workmen. These will warrant a population of 20,000 in the near future.

HEALTH STATISTICS.—Death rate last year only 11 per 1,000 among the whites.

IRON.—The best grades of charcoal pig iron can be manufactured here at a cost not to exceed \$11.50 per ton.

COAL.—Coal for manufacturing purposes is now delivered in Decatur, by rail, for \$1.60 per ton. In a few months the mines up the river will deliver coal for about \$1.25 per ton.

TIMBER.—The finest timbers in the world are on the banks of the Tennessee river, adjacent to Decatur. Decatur is one of the largest hard wood producing centers in the South.

SCHOOLS AND CHURCHES.—Good school and church facilities are here already.

FARMING LANDS.—Decatur is the center of one of the finest agricultural regions in the South. The Tennessee valley produces all kinds of small grain, potatoes and fruits, as well as products characteristic of the South, such as cotton, tobacco, etc.

Review of Decatur's Growth up to July, 1888.

The following enterprises have been located in Decatur and New Decatur, Ala., since February 1, 1887, (with few exceptions) and are in full operation, except where otherwise stated:

1. The Decatur Land, Improvement and Furnace Company was organized on the 11th day of January, 1887, and has laid out the town adjoining Decatur, known as New Decatur.
2. The Louisville & Nashville Railroad Company are now (July, 1888), completing their extensive new shops for the manufacture and repair of cars and locomotives; also roundhouses, etc., the whole covering 57 acres. It is estimated that these shops will employ 1,500 men.
3. The United States Rolling Stock Company are moving their extensive car shops from Urbana, Ohio, to Decatur, where they are putting up new works, covering 49 acres, for the manufacture of every description of cars. The machinery will be in place by September, 1888. The company will employ 500 men at first, and eventually 1,000.
4. The Decatur Charcoal & Chemical Works, running 48 ovens of a capacity of 55 cords of wood each, each cord producing two gallons of wood alcohol, 50 bushels of charcoal and 125 pounds of acetate of lime. This plant has a capacity to treat about 50,000 cords of wood per annum.
5. The American Oak Extract Company, the largest plant of the kind in the world, consuming 100 cords of wood daily in the manufacture of tanning extract. The plant is now being increased by one third.
6. A 70-ton Charcoal Iron Furnace, nearly completed and ready for operation, built by Gordon, Strobel & Laurean, of Philadelphia, on the latest improved designs. Cost \$111,000.
7. The Decatur Iron Bridge Construction Company, an immense plant with admirable machinery for building every description of railroad and other iron bridges.
8. The Ivens & Son Machine Company. Building (brick) 280 feet by 100. Manufacture boilers, engines, etc., and do all kinds of foundry work.
9. Cotton Compress (Morse, 90 inch.) built by Steers & Co., of New Orleans. Cost \$75,000, completed. The buildings are of brick and iron with stone foundation and have the largest storage capacity in the South.

10. The Decatur Car Wheel & Manufacturing Company. Capacity, 100 wheels per day at present; will be increased as fast as possible, as the company cannot now supply their orders.

11. Southern Horseshoe Nail Factory. These extensive works are being constructed, and will shortly be in operation.

12. Decatur Waterworks (both direct pressure and Holly system) now being constructed by Howland & Ellis, of Boston, Mass. There will be 38 miles of pipe, of which over one-half are laid already. The water will be turned on about September next, and Decatur will have an unrivaled water supply.

13. Moulthrop & Stevens' mammoth brick yard, occupying over 7 acres and employing 50 men, their steam machinery having a capacity of 75,000 brick per day. There are five other brick yards in Decatur, and brick can be furnished at the present time at from \$5 to \$6 per thousand.

14. H. S. Freeman's lumber mills and lumber yard. Daily capacity of mill 15,000 feet. Handles 2,500,000 shingles yearly, besides laths.

15. Arantz Brothers' saw mills and lumber yards. Operate 3 band-saws. Daily capacity of their mills 60,000 feet.

16. Decatur Lumber Company's saw mill, planing mill and dryer. A very large establishment.

17. Berthard & Company's sash, door and blind factory.

18. The Hoosier Mills & Building Company.

19. The Southern Lumber Company. Make sash, doors and blinds.

20. J. D. Jervis & Company's extensive factory for sash, doors, blinds, stairs and hardwood finish.

21. Decatur Builders' Supply Company's lumber yards and planing mills.

22. Decatur Artificial Ice Company; capacity 6 tons daily, to be increased shortly to 15 tons.

23. Decatur Cornice & Roofing Company; manufacture galvanized iron cornices and iron and tin roofing.

24. The Decatur Street Railway, running cars over 3½ miles of track. Will have 2½ miles more completed shortly. Is equipped with new rolling stock.

25. The Decatur Telephone Company, operating over 80 stations.

26. The Decatur Electric Light Co., running 30 arc lights (Brush system).

27. Grant & Company's furniture factory.

28. Decatur Building Association.

29. Bucheit's Bottling Works.

30. Decatur Printing Company.

31. Artificial Stone Works.

32. Decatur Plumbing & Supply Company.

33. Alabama Lumber & Fruit Package Company.

34. Decatur Carriage Company.

35. First National Bank. Paid up capital \$100,000.

36. Exchange Bank of Decatur. Capital \$100,000.

37. One daily and two weekly papers.

38. The new "Tavern" Hotel, in full operation, owned by the Decatur Land Improvement & Furnace Company, delightfully situated on their own grounds, magnificently furnished by the Robert Mitchell Furniture Company of Cincinnati, Ohio, with room accommodations for at least 125 guests. There are five other hotels in Decatur.

39. The Decatur Land, Improvement & Furnace Company's incandescent electric plant, furnishing lights to the "Tavern," also to stores, offices and private dwellings.

A block to contain an opera-house, stores and offices, is now being built by a joint stock company at a cost of \$60,000.

The Louisville & Nashville Railroad Company handle daily in their depot yards 640 cars, 360 going South and 280 North; employ 85 men, and pay out to employees \$6,000 monthly.

The East Tennessee, Virginia & Georgia Railway Company handle in their yards 150 to 200 cars, employ 14 men, and pay out in wages \$720 per month.

In March, 1887, the number of inhabitants in Decatur was 1,200; in March, 1888, 7,000 in Decatur and New Decatur. Since January, 1888, there have been over two hundred houses erected; many of them are substantial brick business houses.

The Decatur Land, Improvement & Furnace Company is offering most favorable terms to parties who will purchase lots for the purpose of building homes.

The capital stock of the company, by retirement of the treasury stock, is reduced to 50,000 shares, or \$5,000,000, of which 45,659½ shares have been issued and are now outstanding. It is largely held as an investment by small holders scattered through different States, very many of whom have also bought property in Decatur, and by persons engaged in business and various occupations in Decatur.

The strong financial condition of the company can best be appreciated by a perusal of its published statements of July 1st, 1888, a copy of which can be obtained from the secretary at New Decatur, Alabama.

For Maps, Illustrated Pamphlets, and Specific Information, address

The Decatur Land, Improvement & Furnace Company

NEW DECATUR, ALA.

A RETROSPECT.

THE past year or two have witnessed a wonderful upheaval in the ways, customs and activities of the people of a goodly portion of the State of Alabama. It has chronicled a progress that a decade before had not shown. It was not the discovery of a new truth, nor the development of a new fact, but a sudden and impressive realization of the utility and value of truths and facts known for years.

The mineral section of Alabama (the north central portion) before the civil war was fairly well settled, and had attractions of climate in an even and healthful temperature and a pure, invigorating atmosphere; of fertile valleys and hills adapted to cotton, grain, fruits and pasturage, and an abundant and well-distributed water supply that made its inhabitants contented, happy and prosperous.

The great civil war was a revolution in more senses than that historically attributed to it. It brought out elements that changed destinies. Many years seemed to be absorbed in the process, but the leaven of facts was working, and the development was sudden and startling. In this section the two great factors in the world's industrial economy—coal and iron, which had virtually been the basis of England's great wealth and power, and of Pennsylvania's marvellous prosperity—were found in equal quantity and quality, and surprisingly more available for economic working and reduction. The remarkable development in progress in this section is the result of the impressive realization of these facts.

This development seems rapid, and yet is slow. With natural resources equal, if not greater, than those of Pennsylvania and natural advantages far superior, even at the rate of progress of the past few months, it will be decades before we can approximate to her standard. As in Pennsylvania, so here are certain points where a combination of advantages will center the greater industrial developments; where coal is most abundant and available for working and handling; the ores rich and inexhaustible; limestone abundant; a most eligible site with attractive surroundings; an ample water supply; a fertile contiguous territory; abundant and competitive transportation facilities, and a central location. Such a point is

Bessemer, Ala.

Within a mile of its furnaces the ore is mined and the limestone found in exhaustible beds. Within nine miles, in eight-foot seams, the best of coking coal,—the ore and coal both *mined and delivered at less than one dollar per ton*. Situated in one of the most charming and picturesque sections of the South, on a broad plateau in the famous Jones Valley, twelve miles from Birmingham, midway between Chattanooga and Meridian, Mobile and Nashville, Savannah and Memphis, New Orleans and Louisville, with railroads radiating to each,—seven lines already completed and three others surveyed, two of them under construction.

On the 12th of April, 1887, the first lot was offered and sold in Bessemer. Within a year's time an actual investment or outlay in improvements of over *two million* dollars has been made within its limits, and a population of 3,500 people has located there. Magnificent plants of iron furnaces, iron and steel rolling mills, foundry and machine shops, screw works, planing and drying mills and wood working factory, fire-brick works, building-brick works, etc., have been erected. Choice business blocks costing from twenty-five thousand to one hundred and twenty-five thousand dollars have been constructed, and nearly four hundred buildings have been completed or are near completion.

Yet Bessemer has not been advertised, for it has grown fully as rapidly as stability of growth and prosperous development would warrant, and it has to its credit a rapidity of growth and development unrivalled in this country.

Bessemer is destined to be a large milling and manufacturing center and prosperous city, for its coal and iron fields are inexhaustible, and its transportation facilities are unexcelled in the South; for nearly all the various manufacturing industries and kinds of business enterprises it affords advantages that cannot be rivalled in this country.

The facts of Bessemer court the most rigid investigation. Facts, not expectations, are suggested to enlist interest and attract attention. In all that may be published under our name concerning Bessemer, the reality and correctness of the statements can be relied upon.

The Bessemer Land and Improvement Co., upon whose property Bessemer is largely built, will promptly furnish information as asked for, and offer substantial inducements in the way of *Sites, Subscriptions, Stock or Loans*, to all industrial enterprises giving remunerative employment to the people.

Bessemer Land and Improvement Company,

WM. BERNEY, President. H. M. McNUTT, Secretary.

ALABAMA'S GREAT MINERAL WEALTH

SURROUNDS THE

★ CITY OF TALLADEGA, ★

Which, according to statistics, is the **MOST HEALTHFUL CITY IN ALABAMA**, and the County Seat of Talladega County.

THE CITY HAS A POPULATION OF 5,000, AND ITS POPULATION IS RAPIDLY INCREASING.

TALLADEGA is on the main line of the E. T. V. & G. Railroad, the A. & A. Railroad, and is the present terminus of the T. & C. Railroad. Work is rapidly progressing on the Birmingham & Savannah Air Line Road, between Birmingham and Savannah, and within twelve months this road will be completed via Talladega from Birmingham to Savannah, which will place Talladega on the direct line from Birmingham to deep water on the Atlantic, making

TALLADEGA ONE OF THE BEST DISTRIBUTING POINTS IN THE STATE.

THE CITY HAS

AN EXCELLENT SYSTEM OF COMMON GRADED SCHOOLS,

With a scholastic population of 500, and *THE MOST COMMODIOUS AND ATTRACTIVE PUBLIC SCHOOL BUILDING IN THE STATE*. The main building is a three-story brick, slate roof structure, well ventilated, heated by steam; has accommodations and seating capacity for 500 pupils. This school is owned and sustained by the city. All branches of English literature, foreign languages, music, the sciences and art, are taught for a nominal tuition. Among other educational institutions are the following:

SYNODICAL FEMALE INSTITUTE, Property valued at \$50,000.

D. D. & B. INSTITUTE, Property valued at \$150,000.

BLIND INSTITUTE, (in course of construction,) property valued at \$150,000.

FOSTER COLLEGE, property valued at \$150,000.

No other city in Alabama has so many educational institutions and so many public buildings.


← TALLADEGA HAS THE MOST COMPLETE SYSTEM OF WATER WORKS IN THE STATE. →

The stand pipe has a capacity of 175,000 gallons, and into this reservoir a supply of fresh, clear, pure water is pumped every day from a large spring located in the heart of the city, which discharges over 2,000,000 gallons per day. The gravity pressure from this system is 90 pounds to the square inch in the business portion of the city. The city has broad streets, well macadamized and shaded with beautiful trees, and is well lighted with a *SUPERIOR QUALITY OF GAS*. Sixty fire plugs and forty gas lamps protect against fire and illuminate the streets.

A LARGE FURNACE PLANT gives employment to thousands of hands, and makes a high grade of chilled car-wheel iron from ores, limestone and coal within ten minutes haul by rail, or an hour's haul by wagon. **FOUR LARGE LUMBER MILLS**, with an aggregate daily capacity of 200,000 feet of lumber, cut from the long-leaved yellow Pine of this country. **FOUR BRICK YARDS** are in active operation. A SASH, DOOR and BLIND FACTORY, a FOUNDRY, MACHINE SHOP, FLOUR MILL, COTTON-SEED OIL MILL, and various other industries are in successful operation, and the TALLADEGA ICE CO. cools the thrifty population with pure ice at 50 cents per hundred. Another large furnace plant will be completed within the next ten months. A Spoke and Handle Factory and many other industries are projected, with a view to early completion.

Taxable property has increased 100 per cent. within the past twelve months. The rate of taxation is limited in the city charter to half of one per cent., and the city offers an exemption from taxation to all manufacturing enterprises for a period of ten years. The county of Talladega supplies more crude material, in the way of minerals and timber, than any other county in the State. Almost within the corporate limits of the city are extensive deposits of the highest grades of limonite ores, yielding 50 to 58 per cent. metallic iron, with only a trace of phosphorus, and limestone abounds in the greatest abundance. Coal is within twenty miles by rail.

THE TALLADEGA LAND & IMPROVEMENT CO. owns 5,000 lots suitable for residences, business and manufacturing, in and adjacent to the city. Lots are donated to manufacturing enterprises, and liberal inducements offered to actual settlers. SPRING LAKE PARK is owned by this company, and it is being made the most attractive resort in the State. The lake covers an area of seven acres, and is a beautiful sheet of clear spring water. Parties seeking a healthy climate, free from malaria and epidemics, and a prosperous city, are invited to visit Talladega. Address for maps, etc.

The Talladega Land & Improvement Co.,  Talladega, Ala.

SHEFFIELD, Colbert County, Ala.

The Iron Manufacturing Center of the South.

BEING at the *head of navigation*, and on the *south bank* of the Tennessee river, Sheffield is the *natural outlet* for the mineral and manufacturing products of Alabama and neighboring States seeking a water route to points on the Ohio and Mississippi rivers, and to the Gulf of Mexico, as well as the best *distributing point* over Alabama, Eastern Mississippi and East Tennessee, South Carolina, Georgia and Florida for Northern and Western produce, groceries, provisions, machinery, &c. *Four railroads* certain, and several others assured. *Principal shops of Memphis & Charleston Railroad* will be erected here pursuant to written contract. These will employ between *four hundred and five hundred mechanics*, and consequently, with their families, will make an increase in population of at least two thousand people. Shops of three other railroads are contracted to be located here.

❖ *Five Blast Furnaces Now Under Construction,* ❖

Of which one is finished, and the remaining four contracted to completion the present summer, have estimated capacity of 700 tons pig iron per day. This is 40 per cent. more than now manufactured at Birmingham, Alabama. Experts do not hesitate to say that *iron can be manufactured more cheaply* at Sheffield than at Birmingham, and its *river transportation facilities* will enable Sheffield iron to reach the principal markets at a saving of from

\$2.00 TO \$2.50 PER TON.

A first-class daily newspaper is regularly issued. Furniture Factory, Bottling Works, Bakery, Dummy Street Railroad, a 90-inch Morse Cotton Compress, Electric Lights, Agricultural Implement Works, 3 Steam Brick Works, 2 Hand Brick Works, 2 Steam Wood-Working Establishments, Water Works, 2 Banks, a Savings Bank, and Steam Job Printing Office already in successful operation, and Iron Pipe Works, 15-ton Ice Machine and five-story hotel, with all modern appliances, will be erected. The Cleveland Hotel, Park House and numerous boarding houses furnish accommodations to travelers. Postoffice, Telegraph Office and Express Office already established. Paint Works and Stove Works now under construction. Other manufacturing establishments under consideration, and will probably be built shortly.

Good Water. Free Public Schools and Churches. Health and Climate Unsurpassed.

Drainage excellent. Splendid opening for men of push and energy. No "Old Foggy" element here.

No better point for profitable investment.

❖ Sites for Manufacturing Enterprises, ❖ And for Free Public Schools and Churches

Donated by Sheffield Land, Iron & Coal Company.

Population January 1st, 1887, 700; August 21st, 1887, by actual count, 2,583. Increase of population, 800 per cent. in eight months, and only limited by accommodations.

Three years ago the site of Sheffield was cultivated as corn and cotton plantations, and was without a railroad. Numerous two and three-story brick business houses, and one and two-story dwellings have been, and are being erected. The class of buildings will compare favorably with those in cities of 20,000 inhabitants.

LIMESTONE of excellent quality for *fluxing iron* in unlimited quantities at the furnaces' sites. First-class building stone and brick clay abundant. Rich and extensive deposits of *brown hematite iron ore* within twenty miles, along the lines of two Sheffield railroads. The Sheffield & Birmingham Railroad runs through the heart of the *Warrior Coal Fields*, which abound in first-class *coking, steam, gas and grate coal*. Timber is abundant and cheap.

The *Memphis & Charleston Railroad* and the *Sheffield & Birmingham Railroad* are now in operation into Sheffield. The *Louisville & Nashville Railroad Co.* is now extending its *Nashville, Florence and Sheffield* division, which will be completed to Sheffield before July 1st, 1888. Surveys of three other railroads have been recently completed to Sheffield, which will soon be the *best combined river and railroad transportation center* in the South.

Every merchant and every established manufacturing enterprise is doing a profitable business. *More are needed.* For further information address

WM. L. CHAMBERS, Vice-Prest. and Manager

Sheffield Land, Iron & Coal Co., - Sheffield, Ala.

Anniston

THE CENTER OF
Iron and Cotton Industry
AND MINERAL WEALTH.

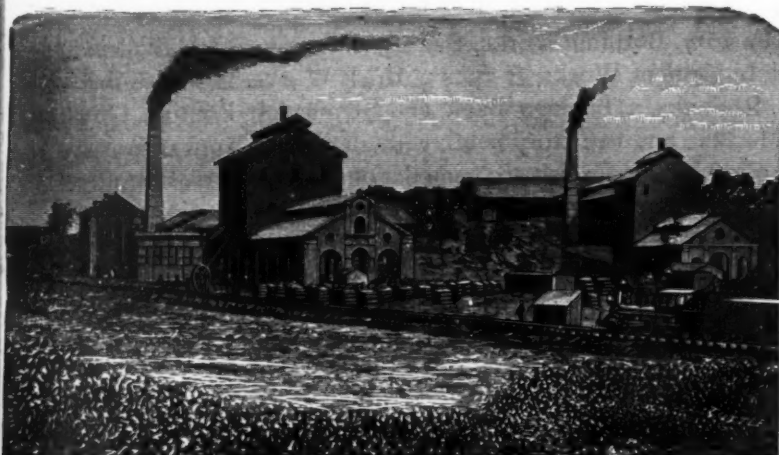
"The Model City of the South."

IT IS

The Profits of Labor only that can add to the wealth and prosperity of a nation or community. It is this only that can make business successful and profitable, sustain and add to the value of real estate.

WHERE

Nature's resources are greatest, where nature's capital in rich agricultural lands, and where iron, coal and other useful minerals are most abundant, most accessible and of superior quality for all purposes, there will capital find its safest investment, largest returns and labor reap its richest reward. It is to the Anniston District where the best professional mining engineers and experts of the United States declare the great center of the iron industry of the South will drift, where its manufacture will be most permanent and profitable, and where ores in the greatest abundance and accessibility exist, and where they will be most easily mined, that this applies.



WOODSTOCK FURNACES—ANNISTON.

The Development of the Past Fifteen Years

Confirms all this, and every year convinces the experts of the correctness of their judgment. It is no longer opinion based on scientific and practical education; it is a fact that is clearly and successfully demonstrated, so that the visitor to the Anniston District can see at every step. The four iron furnaces that have been so long and successfully operated, and the new plant now being erected, and rapidly approaching completion, which will be capable of producing one hundred thousand tons of pig iron a year, demonstrate that

NOWHERE ELSE IN THE SOUTH

Has the iron industry been so profitable and so successful, or been established on so permanent a basis, and of no district is this so universally conceded by all, while nowhere else have arrangements been perfected and already established on so complete a scale to work the crude iron into higher branches of manufacture to increase its value, and to bring into the district the profits of skilled labor. THE GREAT CAR WHEEL WORKS OF NOBLE BROS. & CO., their rolling mill and steam forge and machine shops, and the Alabama Car Works, have been absorbed by the

UNITED STATES ROLLING STOCK COMPANY,

With a capital of \$4,000,000, for the purpose of adding to and enlarging the entire plant to build TWENTY CARS A DAY. Everything that goes into the creation of a car, except the tin for the roof and the wire nails, will be created from Anniston's crude material by her labor and skill. Fifty tons of wheel iron will be made into car wheels daily, twenty tons into car axles, fifty tons of pig iron into car and other castings, and fifty tons into bar iron and bolts, making nearly ten thousand dollars per day added to the wealth of the country by profitable labor converting nature's capital to the use of man. This company have a capital of \$4,000,000, and their Anniston works will represent a cash outlay of \$1,000,000. One thousand skilled mechanics will be employed as soon as the great enlargements under way can be completed.

THE STEEL BLOOMARY

Consumes and increases the value of twenty tons of pig iron per day, while the Pipe Foundry converts to the use of man TWO HUNDRED TONS OF PIG IRON PER DAY in one of the largest and best planned and most convenient labor-saving works on this continent. The Foundry of Murray & Stevenson, Engine and Machine Works of Pinder & Co., and Boiler and Sheet Iron Works of J. & D. Noble, all add to the consumption of crude material by the creation of finished work.

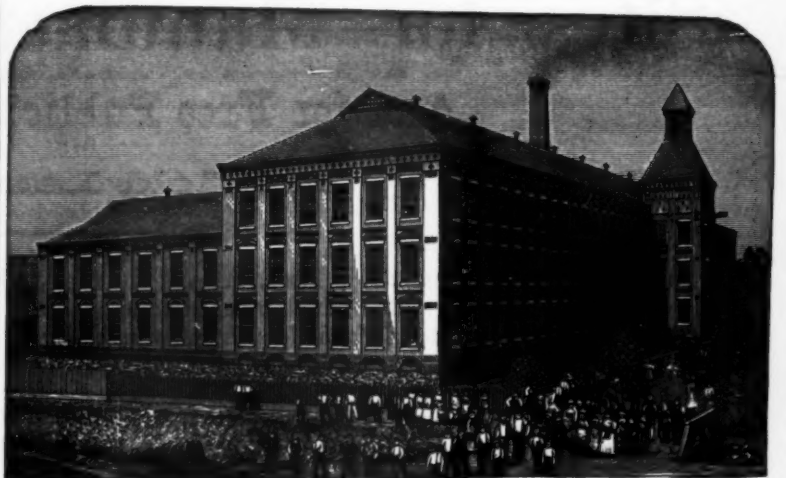
NOR IS IT TO IRON ALONE

That Anniston relies for increase of wealth and population. The Cotton Factory, with eleven thousand seven hundred spindles and three hundred and seventy-five looms, employing over three hundred and fifty operatives, adds greater value to the products of agriculture by converting six thousand bales of cotton into cotton cloth. The immense ninety-inch Morse Cotton Compress, with its brick warehouses, is fast making Anniston a cotton market and commercial center, and aiding its wholesale and retail merchants to extend and hold the trade of the country tributary to Anniston that its system of railroads has opened to them. The Georgia Pacific, the East Tennessee, Virginia & Georgia Railroad systems,

Give Direct Communication and Through Rates

To all parts of the country, while the Anniston & Atlantic Railroad, built by Anniston capital to open up new agricultural and mineral resources, gives Anniston, by connection with the Central of Georgia system, communication with the Atlantic sea coast and the new Anniston & Cincinnati Railroad, built and owned by Anniston citizens, opens up new resources and connections, and a shorter line with the great Northwest.

The proposed extension of the Anniston & Atlantic Railroad to Blocton will give another and shorter line to the great Cahaba Mines, producing the very best coal for domestic and manufacturing purposes in the South. Forty thousand acres of these coal lands, upon which a million and a half dollars have been lately spent in opening new mines and building several hundred coke ovens, ALL OWNED AND CONTROLLED BY ANNISTON CAPITAL, and developed to mine and manufacture three thousand tons of coal and coke per day, secures to Anniston for generations to come a full and certain supply of cheap fuel for all her industries, operated where a rich agricultural country can feed a manufacturing and commercial people, and where the



ALABAMA MANUFACTURING COMPANY'S COTTON MILL—ANNISTON.

Best, Healthiest and Most Invigorating Climate in the World,

With mountain air and pure water, and an elevation of nine hundred feet above tide water, insures the health and comfort of the workman and his family; where health and comfort stimulate and lighten labor, and secure to it and its industries the reward due to both. It is these advantages which have been given by nature that enabled Anniston's citizens to create her past and present prosperity, and which secure her future. It is that they may participate in and avail themselves of these advantages that Anniston invites NEW CAPITAL AND TALENT AND ENERGY from all sections. We invite all to come and see, and on the spot to judge for themselves of Anniston's great resources and possibilities. The comfort and quiet of the famous Anniston Inn will make a visit to our city a treat and pleasure. Any information, attention and courtesy will be given and shown by addressing or applying to the

ANNISTON CITY LAND CO., Anniston, Ala.

CONSTRUCTION DEPARTMENT

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

ALABAMA.

Allen's Factory—Flour Mill.—J. R. Phillips will, it is reported, build a flour mill.

Anniston—Factories.—It is rumored that several new manufacturing enterprises will shortly be established.

Anniston—Buildings.—L. H. Kaplan contemplates erecting several buildings.

Anniston—Ore Roasters.—The Woodstock Iron Co. are excavating for the erection of large ore roasters at their two new iron furnaces.

Anniston—Cracker and Candy Factory.—S. B. Wilson contemplates erecting a cracker and candy factory.

Anniston—Warehouse.—The Standard Oil Co. are arranging to build a warehouse for oil storage.

Anniston—Electric Light Plant.—The Woodstock Iron Co. have added some machinery to their electric light plant.

Bessemer—Rolling Mill.—The Bessemer Rolling Mill Co. will put in an additional battery of boilers at their rolling mill to secure more power. They have lately built an addition to their mill 50x100 feet.

Bessemer.—The Carolina Real Estate Co. will hold a meeting on October 8 to consider issuing bonds.

Birmingham—Machine Works.—The Williamson Iron Co. will probably soon increase the capacity of their machine works.

Birmingham—Asphalt Works.—Robert P. Upham, secretary and treasurer the Asphalt Brick Manufacturing Association, of New York, is prospecting with a view to establishing works for manufacturing asphalt paving blocks.

Birmingham—Building.—Peter A. Buyck, of Wetumpka, and McK. Thomas, of Birmingham, will erect a five-story brick store building on Twentieth street. Plans are being prepared by Wheelock & Son.

Birmingham—Implement Works.—A company has been formed with a capital stock of \$200,000 to establish works for manufacturing agricultural implements.

Birmingham—Tobacco Factory.—Efforts are being made to organize a stock company to start a tobacco factory.

Birmingham—Railroad.—The Alabama Great Southern Railroad Co. (office, Cincinnati, O.), previously reported as to issue bonds to build extensions and branch roads, will issue \$5,880,000 of bonds.

Birmingham.—The Clifton Land Co. have decided to issue the bonds for the improvement of their property previously reported.

Central Institute—Machine Shop.—H. J. Davis, Jr., is rebuilding his machine shop, reported last week as burned.

Childersburg—Academy.—An academy is reported to be erected.

Cropwell—Grist Mill and Gin.—Stone & Co. have erected a new grist mill and gin.

Decatur—Canning Factory.—An Ohio party is thinking of starting a large canning factory.

Decatur—Buildings.—A block of five-story brick buildings is reported to be erected on Oak street.

Decatur.—The Decatur Land, Improvement & Furnace Co. will hold a meeting on October 12 to issue \$200,000 of bonds.

Decatur—Hall and Market-house.—The contract to build the city hall and market-house, previously reported, has been let to Wallen & Co. at \$16,000.

Eufaula—School.—A site has been purchased for the erection of a brick school building. The mayor can give information.

Florence—Wood-working Factory.—Bigelow & Dillon have lately added machinery to their Florence Novelty Wood Works.

Florence—Hardware Factory.—The New Jersey parties reported last week as to erect a hardware factory to cost \$300,000, have selected a site and will soon begin work on four wood buildings and six brick buildings. They will also build cottages.

Gadsden—Furniture Factory.—A furniture factory is to be built. The Gadsden Land & Improvement Co. can probably give information.

Greenville—Wagon Factory.—It is rumored that a large wagon factory will be established.

Huntsville—Bagging Factory.—The Farmers' Alliance talk of starting a bagging factory.

Jacksonville—Hotel.—Another large hotel is reported to be built by next summer. J. A. Gaboury can give information.

Jacksonville—Iron Furnace.—The Jacksonville Mining & Manufacturing Co., Jos. W. Burke and others will build a charcoal furnace of 60 tons capacity, and propose to commence work in a few weeks.

Maysville—Building, &c.—The Farmers' Alliance Exchange, H. P. Bour, manager, are negotiating with different towns for the location of their exchange building, which will cost about \$10,000. They may start the manufacture of fertilizers.

Mobile—Electric Lights.—The Bay Minette Cotton Manufacturing Co., previously reported as establishing a cotton mill near Mobile with machinery from the North, will put in electric light machinery.

Mobile—Railroad.—Surveys are to be commenced soon for the Chicago & Gulf Railroad, previously reported.

Montgomery—Sewerage System.—The mayor will advertise for new bids for building an extension of the sewerage system, previously reported, to be received until October 15.

Orrville—Oil Mill and Fertilizer Factory.—Parties contemplate erecting a cotton-seed oil mill and fertilizer factory, and have been investigating as to cost of machinery.

Oxford—Street Railroad.—Arrangements are being made for extending the Anniston, Oxford & Oxanna Street Railroad to Anniston.

Pratt Mines—Coal Mines.—The Tennessee Coal, Iron & Railroad Co. will, it is said, increase the output of coal from their mines.

Rock Run—Iron Furnace.—It is rumored, but not confirmed, that the Stonewall Iron Works will be purchased by a syndicate who will put the furnace in blast.

Selma—Broom Factory.—Thomas K. Gatchell has purchased and will operate a broom factory.

Sheffield—Machine Shops.—The Memphis & Charleston Railroad Co. (office, Memphis, Tenn.), previously reported as to build large machine works, have ordered that work be commenced at once. The cost will be about \$300,000. The paint

shop will be 40x100 feet; machine shop 100x200 feet; blacksmith shop 90x100 feet; boiler, copper and tin shop 90x100 feet; wood-working shop 90x100 feet; car erecting shop 90x100 feet; engine and boiler 40x100 feet, &c. A 30-stall roundhouse will be built also.

Troy.—The Southeast Alabama Land & Immigration Co. has been formed.

Troy—Electric Light Plant.—An electric light plant will shortly be erected by the Troy Fertilizer Co.

Tuskaloosa—Ice Factory.—The Tuskaloosa Ice Co. will overhaul their factory.

Tuskaloosa—Furniture Factory.—A company is being formed to start a furniture factory.

ARKANSAS.

Alma—Canning and Evaporating Factory.—The Alma Canning & Evaporating Co., capital stock \$25,000, has been incorporated by F. M. Payne, J. D. James, J. D. Reinhardt and others. Mr. Reinhardt is president.

Beebe—Railroad.—It is stated that the St. Louis, Iron Mountain & Southern Railroad Co. (office, St. Louis, Mo.) will soon build a branch road to Conway, 18 miles.

Bowie—Railroad.—It is reported that the Missouri Pacific Railroad Co. (office, St. Louis, Mo.) will build a railroad from Bowie to a point opposite Greenville, Miss., about 30 miles.

Brinkley—Residence.—William Black is preparing to build a \$10,000 residence.

Hood—Flour Mill.—The Elkins Mercantile & Roller Mill Co., reported last week as chartered, have just completed a 40-barrel roller flour mill at a cost of \$6,000.

Hope.—Arrangements are being made to bottle the water of the Arkansas Lithia Spring, five miles from Hope.

Little Rock—Pottery.—J. W. Vestal has started the manufacture of flower pots.

Little Rock—Medicine Factory.—The Bolling Drug Co. will increase the capacity of their medicine factory.

Little Rock—Timber Lands.—The Muskegon Lumber Co. are purchasing more timber lands.

Pettigrew Mills—Flour Mill.—Postnell & Dorsey have bought machinery to erect a roller flour mill of 35 barrels daily capacity. Work has probably commenced.

Texarkana—Furniture Factory.—A \$25,000 stock company is being organized to start a furniture factory. The mayor can give information.

Texarkana—College.—Plans and specifications are being prepared for a building for the Southwest Arkansas College.

FLORIDA.

Charlotte Harbor—Tank Factory.—B. J. Edwards has ordered machinery to start a tank factory.

Charlotte Harbor—Oil and Fertilizer Works.—Works for manufacturing alligator, shark and fish oils and fish and bone fertilizers will shortly be started. B. J. Edwards can give information.

Gainesville—Water Works.—Another proposition has been made for building water works. If anything is done the mayor can give information.

Harbor View—Saw Mill.—Mr. De Coster will build a new and larger saw mill.

Harbor View—Ice Factory.—Oldfield Bros., of New York, are thinking of building an ice factory.

Key West—Works.—Mr. Phillips and others have formed a \$500,000 stock company to establish works for manufacturing a composition for preserving piles, &c. Will probably erect works.

Monticello—Brick-yard.—A stock company has been formed to start a brick-yard near Monticello. George W. Turner can give information.

Ocala—Lime Works.—E. W. Agnew will add another kiln to his lime works.

St. Augustine—Sewerage System.—The building of a sewerage system is being agitated.

GEORGIA.

Americus—Medicine Factory.—The Dr. J. W. Jones Medicine Co. has been incorporated to manufacture medicine. The capital stock is to be not less than \$1,000 nor more than \$50,000.

Acworth—Water Works.—There is talk of building a system of water works.

Athens—Depot.—It is reported that the Northeastern Railroad Co. will build a new depot.

Atlanta—Medicine Factory.—J. S. Pemberton, A. O. Murphy, J. C. Mayfield and E. H. Bloodworth have incorporated the Pemberton Medicine Co., capital stock \$50,000, to manufacture patent medicines.

Atlanta—Church.—The Second Baptist Church are thinking of erecting a new church to cost about \$75,000. Nothing definite has been decided.

Atlanta—Wall.—The city council will have a stone wall built on Nelson street at cost of \$12,500. The mayor can give information.

Canton—Marble Mill.—J. A. Dewar, lately mentioned as to probably erect a marble mill, is general manager of the Blue Ridge Marble Co., of Nelson, who will build a marble mill to cost \$100,000 if a certain bonus is raised. It will be raised.

Carrollton—Saw Mill.—Ernest & Green have purchased machinery for a saw mill.

Carrollton—Cotton Compressor.—Walter T. Forbes, of Atlanta, has been prospecting with a view to erecting a cotton compressor.

Cartersville—Mining, &c.—The Endora Mining Co., capital stock \$2,500, has been chartered to develop mines, &c., by James M. Couper, George L. Lowndes, B. M. Woolley and others.

Cartersville—Iron Mine.—A new iron ore mine has been opened on the land of R. M. & G. S. Pattillo.

Cartersville—Iron Furnace.—The Cartersville Steel & Furnace Co., previously reported as organized to build a 75-ton iron furnace and a 30-ton ferro-manganese furnace, have completed details of constructions and specifications, and will receive bids for their construction.

Cedartown—Warehouse.—The Standard Oil Co. have let contract for an oil warehouse.

Cedartown—Water Works.—E. J. Moal-tree and L. J. Wagner, of Rome, are reported as negotiating to build water works.

Cedartown—Dummy Railroad.—The Ore Belt Railroad Co., previously reported as organized to build a railroad to Cave Springs, will probably operate it with dummy engines.

Cedartown—Planing Mill.—Another planing mill is reported to be built.

Crawfordville—Church.—The Baptists will build a new church soon.

Dahlonega—Mineral Lands.—Parties are arranging to develop mineral lands. Otto C. Scupin can give particulars.

Dalton—Hotel.—The building of a large hotel is being agitated.

Dalton—Chair Factory.—Campbell & Co., of Chattanooga, Tenn., will build a large chair factory, and have purchased a site. They will invest about \$25,000.

Eastman—Saw Mill, &c.—W. W. Ashburn has purchased 20,000 acres more of timber lands along the Georgia Southern & Florida Railroad, and contemplates erecting saw mills, &c.

Gainesville—Railroad.—The Gainesville, Jefferson & Dahlonga Railroad (narrow gauge) will, it is reported, be extended from Gainesville to Dahlonga.

Georgia—Cooperage Works.—The Palmer Manufacturing Co., of Charleston, S. C., contemplates erecting large cooperage works at some point in central Georgia.

Greene County—Iron Mines.—B. F. Dean and R. C. Thompson, of Birmingham, Ala., have purchased the iron ore lands of James J. Moore, reported last week, and will develop. Surveys are reported as being made for a 4-mile road to connect with the Georgia Railroad.

Hamlet—Ore Washer.—An ore washer is being erected by Atlanta parties at the iron ore mine of F. M. Randall.

Hamlet—Lime Works.—Lime works are being started at Bald Mountain, near Hamlet.

Hampton—Cotton Factory.—\$45,000 have been subscribed towards organizing a stock company to build a cotton factory. A committee has been appointed to examine as to the profitability of cotton manufacturing.

Harrison—Grist Mill and Gin.—W. C. Fulghum has lately erected a mill and gin.

Kingston—Houses.—J. M. Anderson is building several houses, and will build a number more.

La Grange—Plow Works.—The La Grange Plow Works, previously reported as to build new works, have commenced work.

Newnan—Railroad.—The Central Railroad & Banking Co. (office, Savannah) are reported as making surveys for a branch road from Greenville to Newnan, 20 miles.

Powder Springs—Gin.—Matt Baggett is erecting a gin.

Rockmart—Building.—The Van Wert Mining & Banking Co. will shortly erect a bank and office building.

Rockmart—Slate Quarries, &c.—J. B. Gordon, Henry M. Grady and others, of Atlanta, and John H. Inman, Samuel Thomas and others, of New York, have formed a company to develop the slate, marble and ochre lands lately mentioned. They have purchased about 10,000 acres of land, including about four-fifths of Rockmart, and intend to build up a manufacturing town. The capital stock of the company will be several millions of dollars.

Rome—Steam Laundry.—A steam laundry will be started.

Rome—Stove and Hollow-ware Works.—Bowie, George & Terhume have purchased some more new machinery for their stove and hollow-ware works, previously reported.

Savannah—Courthouse.—Chatham county has decided by a popular vote to issue the \$100,000 of bonds to build a courthouse, previously mentioned.

Savannah—Publishing, &c.—The Morning News Co. has been organized to continue the publication of the Morning News, &c. J. H. Estill is president.

Savannah—Guano Works.—The works of the Savannah Guano Co. are being greatly enlarged.

Savannah—Railroad.—Herman Meyers, John L. Hammond, Thomas F. Stubbs, William S. Tison, John Lawton and J. F. Misais have incorporated the South-Bound Railroad Co., to build a railroad from Savannah to the Florida State line.

Tallulah Falls—Railroad.—It is stated that W. B. Thomas, owning the Northeastern Railroad from the Atlanta & Charlotte Air Line Railway to Tallulah Falls, has completed negotiations for money to extend the road to Knoxville, Tenn.

Tennille—Gin.—Stephens Bros. have erected a gin.

Wadley—Grist Mill and Gin.—Spier & Bedinfeld, reported last week as sinking an artesian well and as preparing to sink others, contemplate erecting a grist mill and gin if water enough to run an overshot wheel can be secured.

Winterville—Broom Factory.—T. B. Winter has started a broom factory.

Winterville—Cotton Compress.—James M. Smith contemplates erecting a cotton compress in time for next season's compress.

KENTUCKY.

Ashland—Furniture Factory.—It is rumored that another furniture factory will be established soon.

Ashland—Hub and Spoke Factory.—Williams & Henderson are building an addition to their hub and spoke factory.

Ashland—Tin Mining, &c.—Jesus Canales, Richard George, Samuel Richards and others have chartered the Mexican Tin Co. to develop tin, copper, gold and silver mines. The authorized capital stock is \$1,000,000.

Cadiz—Flour Mill.—A 50-barrel roller flour mill is being built by Jefferson & Jones. Machinery has been purchased.

California—Brick Works.—The W. J. Hissem Brick Works & Coal & Lumber Co. has been incorporated.

Carlisle—Electric Light Plant.—Maurice King, of St. Louis, Mo., representing the Edison Electric Light Co., is negotiating to erect an electric light plant.

Dixon—Flour Mill.—The flour mill of Geiger & Brill, lately mentioned as being built, will have a daily capacity of 75 barrels.

Island—Coal Mine.—A coal mine has been opened by B. V. McKinney and M. Stanley.

Richmond—Flour Mill.—H. C. Potts, of Lancaster, and R. L. Potts, of Stanford, have purchased machinery to build a roller flour mill about 12 miles from Richmond. The capacity will be 50 barrels daily. Work on building has been started.

Lexington—Publishing.—J. S. Hathaway, S. N. Blackburn, A. L. Hardin, J. C. Jackson and others have chartered the Intelligence Publishing Co., capital stock \$10,000.

Louisville—Iron Works.—Matt O'Doherty and W. B. Forsman are organizing a stock company to establish works for making malleable or soft steel castings. They will desilicanize iron by a new process.

Louisville—Distillery.—Moses Schwartz and Jacob Schwartz have incorporated the Sweet Wood Distillery Co., capital stock \$100,000.

Louisville—Shuttle and Bobbin Factory.—A shuttle and bobbin factory will be started, and machinery has been purchased.

Louisville—Electric Light Plant.—The United States Electric Light Co., whose plant is reported in this issue as damaged \$10,000 by fire, will repair damages at once.

Louisville—Power Building.—The manufacturing and mercantile committee of the Commercial Club, previously reported as to erect a building to furnish room and power for small manufactories, have secured the building lately occupied by the Louisville Coffin Co., and will fit it up for the purposes named.

Louisville—Building.—The Commercial Club, previously reported as to erect a large office building, have perfected arrangements for the erection of a large nine-story brick and stone building, to contain about 150 rooms and 2 bank offices. The cost will be \$350,000. Secretary A. R. Allmond can give particulars.

Mayfield—Railroad.—The Cairo & Cumberland Gap Railroad has been voted the \$20,000 subscription reported last week.

Newtown—Flour Mill.—J. R. Johnson will add a roller flour mill to his grist mill, and has contracted for machinery.

Owensboro—Railroad.—J. M. W. Field has contracted to build the Owensboro,

Falls of Rough & Green River Railroad, previously reported. He is to commence actual work by January 1.

Owensboro—Sewerage System.—A sewerage system will probably be constructed. The mayor can give particulars.

Owensboro—Ice Factory.—The Owensboro Ice Manufacturing & Cold Storage Co., capital stock \$50,000, has been organized with John Reinhart as president, and will erect the ice factory reported last week. Machinery has been ordered with a capacity of 30 tons daily and 10,000 cubic feet of storage.

Paducah—Railroad.—The Paducah & Hickman Railroad Co., previously reported, have organized with C. L. Randle, of Hickman, as president; E. Farley, vice-president; Hugh Mulholland, Jr., secretary, and W. G. Bullitt, treasurer.

Russellville—Opera House.—R. H. Caldwell will probably build the \$10,000 opera house reported last week.

Shelbyville—Flour Mill.—J. L. Stoughill has added some machinery to his flour mill.

Wallonia—Medicine Factory.—The Pomroy Medicine Co., lately mentioned as contemplating moving their factory to Owensboro, will next spring move it to Paducah. They have organized as a stock company with \$25,000 capital.

Winchester—Pipe Factory.—J. A. Tanner has started a cob pipe factory.

Winchester—Residence.—H. P. Thomson will build a residence to cost \$6,000, and has commenced work.

LOUISIANA.

Ascension Parish—Sugar House.—B. Leemann & Bro. are making extensive improvements to their sugar house and putting in additional machinery.

Assumption Parish—Sugar Factory.—Dr. Painchard is improving his sugar house.

Assumption Parish—Sugar Factory.—The sugar house on the E. F. X. Dugas plantation is being repaired and a new boiler put in.

Donaldsonville—Sugar House.—Adelard Landry has made extensive improvements to his sugar house, six miles from Donaldsonville.

New Orleans—Railroad.—The Louisville & Nashville Railroad Co. expect to commence building their Claiborne street road this year. It will be built over the Claiborne canal.

New Orleans—Knitting Mills.—The Crescent City Knitting Mills have been started with about 52 machines by Hyams & Lehmann. They are making arrangements for spinning and dyeing cotton yarns.

New Orleans—Safe and Lock Factory.—A company will be organized to succeed the New Orleans Safe & Lock Co. and operate their factory.

Plaquemine Parish—Sugar Factories.—The Stella Sugar Factory is being overhauled and improved, and a vacuum pan has been put in the Poydras Sugar Factory.

Plaquemine—Railroad.—The Texas & Pacific Railroad Co. (office, Dallas, Texas,) lately reported as to build a railroad from Plaquemine to a point on Plaquemine Bayou, nine miles, have let the contract for building the same.

Provencal—Railroad.—It is stated that the Texas & Pacific Railroad Co. (office, Dallas, Texas,) will build a loop line from a point 12 miles south of Alexandria to Provencal to open timber lands for development.

Thibodaux—Sugar House.—Forest Bros. are repairing and improving their sugar house on the Coulon plantation, near Thibodaux, at a cost of about \$15,000.

MARYLAND.

Alleghany County—Coal Mine.—The Maryland Coal Co. are making improvements that will increase the capacity of their mines. They will haul coal out of

their mines by steam power instead of horse power.

Baltimore—Medicine Factory.—Martin C. Hagermar, Charles E. Martin, Lewis H. Robinson, William W. Smoot and Alexander B. Balack have chartered the Hagerman Rheumatic Liniment Co., capital stock \$10,000, to manufacture medicines.

Baltimore.—The Rothschild Building Association No. 20 has been chartered.

Baltimore—Hollow-ware Factory, &c.—Thomas Jones, of New York, will start the manufacture of hollowware, maslin kettles, &c., at the State penitentiary. A building will be erected. He will employ about 100 convicts.

Baltimore—Road.—The RiverView Turnpike Co. will build a turnpike road from eastern boundary of city to Back river.

Baltimore—House.—W. M. Warfield will build 10 three-story brick houses on Parkin street.

Baltimore.—William M. Stork and others have chartered the Home Investment & Trust Co., capital stock \$50,000.

Baltimore—Machine Shops.—The Baltimore & Ohio Railroad Co. have organized a commission of experts to examine all the shops, tools, &c., of their entire system with a view to the introduction of the latest methods for turning out effective and economical work.

Denton—Grist Mill.—T. F. Garey, previously reported as to erect a grist mill, is now building the mill and has purchased machinery. The capacity will be 50 barrels per diem.

Derwood—Machine Shops.—It is reported that arrangements are being made for the erection of machine shops to cost \$50,000. Stephen Lyddane can probably give information.

Derwood—Flour Mill.—It is reported that Jones, Lyddane & Co. have lately erected a flour mill at a cost of \$20,000.

Frederick—Bag Factory, &c.—The Great Southern Printing & Manufacturing Co., manufacturers paper bags, &c., have increased their capital stock from \$25,000 to \$100,000 to erect a larger factory.

Hagerstown—Wood-working Factory.—H. G. Wiles has purchased the machinery of the Hagerstown Manufacturing Co.'s wood-working plant, reported last week, and contemplates erecting the machinery on another site or moving it South.

Norrisville—Canning Factory.—D. A. Edie has put a large boiler and 40 horsepower engine in his canning factory.

Washington, D. C.—Schools.—The District Commissioners will erect a two-story school building, 72x85 feet, on I street. They have had plans prepared for another building of similar size.

Washington, D. C.—Church.—Work has been commenced on the building for St. Mark's Church, previously reported. T. B. Ghequier, of Baltimore, is architect.

Washington, D. C.—Brick Works.—Childs & Son will move their brick works to another site.

Washington, D. C.—Buildings.—Mrs. Hicks will erect 8 dwellings on G street, S. E., to cost \$8,000.

Washington, D. C.—Steam Laundry.—Fred Rogers has moved his steam laundry from Alexandria, Va., to Washington.

MINNESOTA.

Grenada—Bridges.—The contract for building three of the iron bridges previously reported has been awarded to the King Iron Bridge & Manufacturing Co., of Cleveland, Ohio, at \$5 250.

Grenada—School.—Plans have been accepted for the school, to build which \$15,000 of bonds have been issued as lately stated. It is to be of brick, 116x46 feet. Bids for its erection will shortly be wanted by the architect, W. Zucker.

Jackson—Electric Light Plant.—The Jenney Electric Light Co., of Indianapolis, Ind., have contract to furnish the city with an electric light plant. It is to be in operation within 90 days.

Jackson—Bagging Factory.—The State Farmers' Alliance propose starting a bagging factory at Jackson. Nothing definite has been done.

Meridian—Electric Light Plant.—The Waterhouse Electric & Manufacturing Co. have made a proposition to erect a plant with a capacity of 75 arc lights.

Natchez—Railroad.—The New Orleans, Natchez & Fort Scott Railroad Co., previously reported, are making the preliminary surveys for their road.

Scooba—Saw and Grist Mill, &c.—Guy Jack has erected a saw and grist mill, and is adding a gin.

Water Valley—Ice and Soda Water Factory.—The Water Valley Ice Manufacturing Co., lately mentioned as starting an ice factory, will, it is stated, manufacture soda water also.

West Point—Ice and Soda Water Factory. Parties are making efforts to organize a stock company to start an ice and soda water factory.

NORTH CAROLINA.

Asheville—Hotel.—Frank Cox will build another addition to the Battery Park Hotel to contain 35 rooms.

Charlotte—Publishing.—The name of the company reported last week as formed by H. C. Jones and others to continue the publication of the Chronicle is the Charlotte Chronicle Publishing Co. The capital stock is \$8,000, paid in.

Durham—Depot.—The Durham & Northern Railroad Co. have purchased a site to build a depot.

Durham—Warehouse.—E. J. Parrish and others have chartered the Parrish Warehouse Co., capital stock \$100,000.

Durham—Telephone.—George H. Glass is negotiating to establish a telephone exchange.

Fayetteville—Bridge.—The Cape Fear & Yadkin Valley Railroad Co., previously reported as to build an iron bridge across the Cape Fear river, will shortly let the contract for the masonry work and are negotiating for the erection of the superstructure.

Hickory—Wood working.—The Hickory Manufacturing Co. will, it is stated, increase the capacity of their wood-working factory.

Hickory—Tannery.—Geitner & Son will, it is said, double the capacity of their tannery.

High Point—Electric Light Plant.—E. D. Steele wants to correspond with a capitalist with a view to the erection of an electric light plant in town with 2,500 population.

Randolph County—Copper and Gold Mine.—English parties have taken a bond on the Lantz copper and gold mine and will sink an 85-foot shaft 350 feet deeper. They may erect a plant of machinery.

Rowan County—Gold Mine.—The Southern Bell mine is reported to be prospected by Boston (Mass.) parties.

Salem—Foundry and Machine Shop.—J. A. Vance, reported last week as erecting a foundry and machine shop, is erecting new buildings for his present works. The foundry is 25x40 feet, and the machine shop two stories, 35x65 feet.

Statesville—Electric Light Plant.—D. A. Miller and N. B. Mills have been appointed a committee and are examining electric lights at several places. The city is negotiating for the erection of a plant, as lately mentioned.

Wilmington—Terra Cotta and Fire-brick Works.—L. Hansen and Andrew Smith are preparing to establish terra cotta and fire-brick works about 11 miles from Wilmington. They have purchased land.

SOUTH CAROLINA.

Bennettsville—Cotton Compress.—The report referred to last week that a cotton compress will be erected lacks confirmation.

Charleston—Almsouse.—The contract for repairing the Charleston Almsouse and erecting a cottage, reported last week, has been let to M. W. Powers at \$9,000. J. J. Carey has the contract for plumbing at \$1,249.

Charleston—Cooperage Works.—The Palmer Manufacturing Co. will erect an additional building, 120x40 feet, at their cooperage works. Their capacity will be increased about 50 per cent. They contemplate erecting large works at some point in central Georgia.

Charleston—Warehouse, &c.—The Charleston Manufacturing Co., in addition to putting in their cotton factory the 7,000 additional spindles lately mentioned, will build two more warehouses with a capacity of 1,000 bales each, and a number of cottages.

Charleston—Phosphate Works.—The Atlantic Phosphate Co. are overhauling their works and enlarging their acid chambers.

Charleston—Electric Light Plant.—The Charleston Electric Light & Power Co., previously mentioned as contemplating enlarging their plant, have made arrangements for the enlargement. They will then furnish electricity for power purposes.

Charleston—Phosphate Works.—The Pacific Guano Co. have lately put in new grinding machinery.

Charleston—Phosphate Works.—The Wando Phosphate Co. are erecting additional storage rooms.

Charleston—Phosphate Works.—The Ashley Phosphate Co. are more than doubling the chamber capacity at their phosphate works.

Cheraw—Woolen Mill.—Benjamin Frankland will move his woolen mill from Hamlet, N. C., to Cheraw.

Columbia—Oil Mill.—H. M. Gibson & Co. are increasing the capacity of their cotton-seed oil mill from 6 to 35 tons per diem, and will put it in operation after a year's idleness. They will soon organize as a stock company with \$25,000 capital.

Columbia—Fertilizer Factory.—H. M. Gibson & Co. will increase the capacity of their fertilizer factory.

Dorroh—Saw Mill, &c.—J. P. Gray has put some new machinery in his saw mill and ginny.

Easley—Mill.—J. A. Higgins will probably put steam power in his mill.

Eastover—Bagging Factory.—C. D. Stanby has purchased machinery to start a bagging factory.

Fort Motte—Veneer Factory.—J. A. Peterkin will start a veneer factory and has ordered machinery.

Greenville—Depot.—The Richmond & Danville Railroad Co. will shortly begin work on their new freight depot, previously reported.

Hawthorne—Gin.—A gin has been erected by Mr. Hance.

Millbrook—Gin.—Isaiah George and S. E. Holly have erected a gin.

Spartanburg—Church.—The Baptists contemplate remodeling their church at a cost of about \$8,000.

Spartanburg—Cotton Mill.—The Spartanburg Manufacturing Co., previously reported as to build a cotton mill, have let the contract for 1,000,000 brick to L. C. Cannon. They will begin work next spring. The capacity will, it is stated, be 10,000 spindles.

Spartanburg—Hall.—The contract to build the three-story hall for Wofford College, previously mentioned, has been awarded to Eugene Tessier.

Winnsboro—Railroad.—A bill will be introduced in the next session of the legisla-

ture to incorporate the Winnsboro & Fish Dam Railroad Co., with T. D. Feaster and others as corporators.

TENNESSEE.

Big Creek Gap—Railroad.—The Big Creek Gap Coal & Iron Co., reported last week as making surveys for a railroad, have made surveys for a railroad from Big Creek Gap to Jellico, and will make surveys for roads from Big Creek Gap to Careyville, 8 miles, and from Big Creek Gap to Cumberland Gap, 32 miles. The road to Careyville will probably be built soon.

Bristol—Building.—The Young Men's Christian Association, previously reported as to erect a building, have let the contract for the brick work to J. J. Adams, of Johnson City, and the contract for the wood work to G. W. Eng.

Carthage—Railroad.—The Nashville & Knoxville Railroad Co., reported last week, are negotiating the sale of \$1,000,000 of bonds to be used in completing their railroad.

Chattanooga—Street Railroad.—It is stated that Mr. Warner, president Street Railroad Co., will shortly examine the different systems of running cars by electric power with a view to adopting the best system.

Chattanooga—Hotel.—Wilkins Bros., of Mississippi, will build a four-story brick hotel on Market street at once. P. Howard will superintend the construction. Passenger elevator will be put in.

Chattanooga—Pipe and Tile Works and Machine Works.—It is reported that Michigan parties are negotiating to establish clay pipe and tile works and machine works for manufacturing saw mill supplies on the property of the Blowing Springs Land Co. at Blowing Springs.

Chattanooga—Railroad.—The Chattanooga, Rome & Columbus Railroad Co. are negotiating for a site for a freight depot, previously reported.

Chattanooga—Machine Works.—The Chattanooga Machinery Co., previously reported as to enlarge their machine works, have, it is said, commenced work.

Chattanooga—Railroad.—John A. Hart, Samuel W. Divine, E. Watkins, M. H. Clift and W. G. McAdoo have incorporated the Chattanooga, Cleveland & Murphy Railroad Co. to build a railroad from Chattanooga via Cleveland to the North Carolina State line. A similar named company has been chartered in North Carolina to continue the road to Murphy. E. Watkins is president of the company.

Columbia—Electric Light Plant.—The Columbia Electric Light and Power Co., reported last week as chartered, will soon erect a plant. E. C. McDowell is president.

Greenville—Electric Light Plant.—The Greenville Electric Light Co. has been chartered and will erect the plant reported last week.

Greenville—Railroad.—The Carolina, Greenville & Northern Railroad Co. has been organized to build a railroad from Paint Rock, N. C., via Greenville to Big Stone Gap, Va., with A. S. Johnson as president; J. M. Brabson, vice-president; H. R. Brown, secretary, and W. R. Allen, treasurer. It is stated that surveys will be made at once.

Kingston.—A land and improvement company will probably be formed.

Knoxville—Mining.—The Southern Land & Mining Co. has been chartered by G. M. Ross, Charles Dawes, W. H. Collett, F. L. Fisher and J. H. Todd.

Knoxville—Market-house, &c.—The Central Market Co., previously reported as to build a market-house and store buildings, have commenced grading.

Knoxville—Railroad.—It is rumored that the East Tennessee, Virginia & Georgia Railroad Co. will secure control of the Kentucky Central Railroad and probably build

a railroad from Jellico to Livingston, 60 miles, to connect the two roads.

Memphis—Electric Lights.—The Yazoo Oil Co. have contracted for electric light machinery for their cotton-seed oil mill.

Memphis—Foundry and Machine Shop.—William C. Ellis & Son, reported last week as to increase the capacity of their implement works, have purchased a site to add an iron foundry to their machine (implement) works. They have added about \$4,000 of new machinery the past year.

Memphis—Electric Lights.—The De Soto Oil Co. will put electric lights in their cotton-seed oil mill and have contracted for machinery with a capacity for 40 16-candle power lights.

Morristown—Paper Box Factory.—The Morristown Medicine Co. contemplate starting the manufacture of paper boxes and want to purchase machinery.

Poplar Creek—Coal Mines.—Joseph Brown, of Atlanta, Ga., and others, have commenced developing coal mines, previously reported.

Rudolph—Flour Mill.—R. Wood has contracted for machinery to erect a roller flour mill.

Sewanee—Buildings.—The University of the South, reported last week as to erect a chapel building at a cost of \$60,000, are erecting several chapel buildings that will cost \$100,000.

Somerville—Cotton Compress, Mill, &c.—E. C. Bush is president, and A. J. Rooks, secretary and treasurer, of the company reported last week as formed to erect a cotton compress and warehouse; also a steam mill and gin. The capital stock is \$95,000.

Trenton—Foundry and Machine Shop.—J. I. Wells & Sons, whose foundry and machine shop was lately reported as burned, will rebuild at Trenton or some place near by. The building will be of brick, 150 feet long and 40 or 50 feet wide.

Tullahoma—Saw and Planing Mill.—W. P. Baird and others will shortly build a saw and planing mill.

Union City—Railroad.—The Chesapeake, Ohio & Southwestern Railroad Co. (office, Louisville, Ky.) will build their road through Union City if \$25,000 of bonds are voted. Their road runs within three miles of Union City.

TEXAS.

Amarillo—Hotel.—Mr. Sanborn will erect the brick hotel lately mentioned; also a brick store building.

Ballinger—Building.—A. Matthews has commenced work on a two-story stone building, 30x120 feet.

Beaumont—Canning Factory.—The fish, fruit and vegetable canning factory reported last week will be started about February 1, 1889, by the Beaumont Ice, Light & Refrigerating Co. It will be on an extensive scale.

Corsicana—Oil Mill.—The Farmers' Alliance are working up a company to build a cotton seed oil mill. The capital stock proposed is \$50,000.

Denison—Stamp Factory.—C. E. Bauer will manufacture rubber stamps.

El Paso—Electric Light Plant.—J. J. Gurdson and others have chartered the El Paso Light Co., capital stock \$50,000, to erect an electric light plant.

El Paso—Electric Light Plant.—The El Paso Gas Co. contemplate, it is said, erecting an electric light plant.

Farmersville—Building.—The Masons will erect a two-story stone building.

Fort Worth—Well.—An artesian well will be sunk at the Fort Worth Water Works.

Fort Worth—Street Railroad.—The Southwest Land Co. have changed their name to the Fort Worth Land & Street Railway Co. They have a capital stock of \$400,000, and will build a street railroad, as previously mentioned.

Fort Worth—Sewers.—\$40,000 have been appropriated for building the new sewers previously mentioned. The mayor can give information.

Fort Worth—Roofing Factory.—The Fort Worth Granolithic Roofing Co. will erect a larger building for their factory to increase capacity.

Galveston—College.—The board of regents of the Texas University have accepted plans for the \$50,000 medical college building previously reported as to be erected, and will receive bids for its construction. Dr. T. C. Thompson can give particulars.

Galveston—Transportation.—The Galveston Bay Steamboat Co., capital stock \$10,000, has been chartered with N. J. Johnson, B. R. Vaughn and Benjamin Kline as directors.

Goldthwaite—Flour Mill and Gin.—A flour mill and gin are to be built in Mills county, probably at Goldthwaite.

Greenville—Electric Light Plant.—Thos. Howard and John B. Harrison, of St. Louis, Mo., and J. M. Cook and others, of Greenville, lately mentioned as having formed a company to build water works to cost \$85,000, will erect also an electric light plant with capacity of 35 arc lights. They will soon begin work. Mr. Cook is president.

Houston—Saw Mill.—Cock Bros. have, it is stated, lately erected a new saw mill.

Houston—Railroad.—A new company, with a capital stock of \$10,000,000, will be organized to operate the Houston & Texas Central Railroad.

Huntsville—Depot.—The International & Great Northern Railroad Co. (office, Palestine) will build a new depot at once.

Jefferson—Iron Furnace, &c.—The Chicago (Ill.) parties, for whom J. H. Ralston was lately reported as examining the iron ores at and near Jefferson, and as making a favorable report, have made a proposition for the erection of an iron furnace, &c., which will probably be accepted. They have already purchased 1,000 acres of land.

Llano—Broom Factory.—W. Jackson has started a broom factory.

Marble Falls.—The Marble Falls Ferry Co., capital stock \$5,000, has been organized with Wade Border as president.

Marshall—Nut Works.—The Eureka Nut Lock Co., previously reported, are now erecting works for manufacturing their nut locks.

Meridian—Cotton Compress.—The Hay Compress Co., capital stock \$20,000, has been chartered.

Paris—Foundry and Machine Works.—The Commercial Club are corresponding with a party who contemplates erecting a foundry and machine shop.

San Antonio—Mining.—The Sierra Blanco Mining Co. is being organized.

San Antonio—Cotton Compress.—The Farmers' Alliance ask for a donation of \$20,000 of real estate to be used as a site for a cotton compress, stock and wool exchange, &c.

Spring—Saw Mill.—Charles Bender, of Moscow, will at once rebuild his saw mill, reported in this issue as burned. The loss is \$3,000.

Terrell—Building.—Scott, Brown & Clementz have prepared foundation for a two-story brick building 75x125 feet.

Terrell—Creamery.—Mr. Brent, of Chicago, Ill., is organizing a company to start a creamery.

Waco—Railroad.—The Missouri Pacific Railroad Co. (office, St. Louis, Mo.) will complete their branch road from Dallas to Waco at once.

Weatherford—Water Works, Ice Factory and Electric Light Plant.—The Weatherford Water, Ice & Light Co., previously reported as commencing work on their water works, are preparing to erect their ice factory and electric light plant. Work on foundations has been commenced.

VIRGINIA.

Alexandria—Pottery.—A stock company is being organized to start a pottery.

Baldwin Station—Iron Furnaces.—J. V. Rals, of Gala, is negotiating for the erection of the iron furnace previously mentioned, but nothing definite has been done.

Bonsack's—Church.—R. A. Hoal, of Roanoke, has contracted to build a church for the Baptists.

Danville—Railroad.—The Atlantic & Danville Railroad Co. (office, Hicksford) have made managements to complete their road to Danville by next summer.

Danville—Tobacco Factory.—Stultz, Lisberger & Co. will build a new and larger tobacco factory.

Danville—Tobacco Factories.—One or more large tobacco factories will, it is rumored, be erected soon.

Lexington—Electric Light Plant.—The Richmond Electric Light & Power Co., of Richmond, will erect an electric light plant if permit is granted.

Lynchburg—Flour Mill.—William H. Ford wants to buy machinery to start a flour mill with a daily capacity of 50 barrels. He has a four-story building, 100x40 feet, now erected.

Lynchburg—Bridge.—The Virginia Midland Railroad Co. (office, Alexandria) will build an iron bridge over Blackwater creek.

Lynchburg—Cotton Mill.—The Lynchburg Cotton Mill & Improvement Co. have let the contract for building the brick foundation of their cotton mill, previously reported, to William H. Ford.

Metompkin—Life-saving Station.—Proposals for building a life-saving station on Metompkin Beach, near Metompkin Inlet, will be received until September 22 by S. I. Kimball, general superintendent U. S. Life-saving Service, Washington, D. C.

Pocahontas—Hotel.—A company has been organized to build a hotel and will shortly commence work. E. J. Collins is president, and T. H. Wickham, secretary and treasurer.

Raymond—Handle Factory and Planing Mill.—The Raymond Mills Co., lately mentioned as to erect a handle factory and planing mill, have commenced work.

Richmond—Flour Mill.—The Haxall-Crenshaw Co. have lately put some new machinery in their flour mill.

Richmond—Street Railroad.—The Shockoe Hill & Union Depot Railway Co. have asked permit to build a street railroad to use either horse or electric power. If permit is granted work will be commenced within 90 days. O. O. Owens is interested.

Roanoke—Machine Works.—Nothing definite has been done in regard to erecting the new passenger car and paint shop at the Roanoke Machine Works, reported last week.

Salem—School.—The contract to erect a school building has been let to J. C. Deyler at \$7,125.

Tazewell C. H.—Railroad.—Ferguson & Vaughn have contract to grade six miles more of the Clinch Valley Railroad.

Tazewell C. H.—Iron Mine.—Samuel Walton and Mr. Coulling are developing an iron mine three miles from Tazewell C. H.

Tazewell C. H.—Church.—The Lutherans have selected a site to build a church.

WEST VIRGINIA.

Buchannon—Seminary.—The contract for the stone work (including foundation) of the seminary lately reported to be built by the Methodists, has been let to George Croll, of Hocking, O., at \$4,167.

Charleston—Nut and Bolt Works, &c.—It is stated that Messrs Decker and Atkins, previously reported as making efforts to sell a certain number of lots, which if sold will secure the removal of the Chapin Nut & Bolt Co's works from Cleveland, O., to Charleston, and the Western Iron Works, of New

York State, to Charleston, have sold a sufficient number to secure the removal of said works.

Clarksburg—Flour Mill.—The Anchor Mill Co. will shortly improve their flour mill.

Grandview—Bridge.—The iron bridge of the Newport News & Mississippi Valley Railroad Co. (office, Richmond, Va.) over New river has been destroyed by a flood, and will have to be rebuilt. The loss is stated as \$50,000.

Huntington—Rolling Mill and Machine Shops.—A. G. Savage, C. T. Tanniman, T. B. Bullock and C. E. Armstrong, of Vanceburg, Ky., have been prospecting with a view to building a rolling mill and machine shops.

Huntington—Railroad.—The Huntington & Guyandotte River Railroad Co., previously mentioned as organized to build a railroad to Loyal C. H., have secured nearly all the right of way, and will shortly begin the work of construction.

Martinsburg—Railroad.—Proposals for the grading and masonry work of the extension of the Cumberland Valley Railroad from Martinsburg to Winchester, Va., 22½ miles, previously reported, will be received until September 18 by Chauncey Ives, chief engineer, Chambersburg, Pa.

Parkersburg—Railroad.—There is talk of building a belt railroad.

Parsons—Lumber Mill, &c.—The Cheat River Boom & Manufacturing Co., reported last week as chartered, has a capital stock of \$10,000. The incorporators are J. R. Seiler and Mary A. Seiler, of Parsons; E. C. Krumrine, Lewisburg, and others.

Ritchie C. H.—Hall.—George M. Cokely is thinking of building a hall.

Wheeling—Iron Works.—The report referred to last week that the La Belle Iron Works will build an addition to their works to manufacture sheet and channel iron, is not confirmed.

Wheeling—Machine Shops, Roundhouse, &c.—The Baltimore & Ohio Railroad Co., previously reported as to make extensive improvements, including the building of large machine shops, roundhouse, &c., will begin work as soon as they secure permit to change their route through the city. They will probably erect a new bridge at foot of Sixteenth street.

Charleston—Paper Mill, &c.—The Kanawha Paper Co., lately reported as organized with a capital stock of \$50,000 to manufacture paper, extracts, &c., have purchased the mill property formerly operated by Thomas Wright.

BURNED.

Finchtown, Ky.—The whiskey distillery of G. W. Robson, Jr., & Co. damaged \$1,200 by a boiler explosion.

Jennings, La.—A fire on September 4 burned about \$100,000 of property, including the Jennings Hotel.

Louisville, Ky.—The plant of the United States Electric Light Co. damaged \$10,000 by a fire. Will be rebuilt.

San Antonio, Texas.—The Lone Star Brewery damaged \$1,000 by an explosion.

Spring, Texas.—The saw mill of Charles Bender, of Moscow; loss \$3,000. He will rebuild at once.

Washington, D. C.—The saw and planing mill of F. A. Belt; loss \$20,000.

Washington, D. C.—The soap factory of Memmert & Kooff; loss on building and machinery \$5,000.

SALEM, N. C., Sept. 6, 1888.

Editor Manufacturers' Record:

I am building a 35x65-foot, two story machine shop and 25x40 foot foundry, all of brick, iron roof. Will remove from where I am now to new site. Will work about 15 mechanics in the manufacturing of saw mills, planers, &c. J. A. VANCE.

MACHINERY WANTED.

If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Bridge—Proposals for building a bridge across Camp creek at Little's bridge in Fulton county, Ga., will be received until October 3 by John T. Cooper at Atlanta.

Fire Hose.—J. A. Preston, president board of fire commissioners, Baltimore, Md., will receive proposals until September 18 for furnishing 2,500 feet of fabric fire hose, with couplings. Samples are to accompany each bid.

Flour Mill Machinery.—William H. Ford, Lynchburg, Va., wants to purchase machinery for a 50-barrel roller flour mill. Building for mill is erected.

Furnaces.—The Cartersville Steel & Furnace Co., Cartersville, Ga., will receive bids for the erection of a 70-ton iron furnace and a 20-ton ferro-manganese furnace.

Grit Mills.—J. T. Adams & Son, Talladega, Ala., want the address of parties in North Carolina that manufacture grit mills.

Hot Air Furnace.—Proposals for furnishing the school building now being erected on Saratoga street, Baltimore, Md., with a brick-set hot-air furnace will be received until September 17 by H. M. Cowles, secretary school commissioners.

Paper Box Machinery.—The Morristown Medicine Co., Morristown, Tenn., want the address of manufacturers of machinery for making paper boxes.

Planing Mill Machinery.—Lewis & Wills, Broken Arrow, Ala., want price-lists and catalogues of machinery for planing mill; also boilers.

Sewerage System.—The mayor will advertise for new bids for building the extension of the sewerage system at Montgomery, Ala. They will be received until October 15.

CHARLOTTE, N. C., Sept. 5, 1888.

Editor Manufacturers' Record:

The Richmond & Danville and the Carolina Central Railroads are erecting a large Morse compress at Charlotte.

E. BERKELEY.

To Erect Electric Plant.

COLUMBIA, TENN., Sept. 4, 1888.

Editor Manufacturers' Record:

The Columbia Electric Light & Power Co. will erect a plant and furnish electric light and power to Columbia so soon as the Board of Mayor and Aldermen pass the ordinance allowing erection of poles, wires, &c. Company is chartered and organized and ordinance is now pending before Board of Aldermen. E. C. McDOWELL, Pres.

Building Planing Mill.

CHATTANOOGA, TENN., Sept. 6, 1888.

Editor Manufacturers' Record:

We are putting in a planing mill at Sedon, Ala. Building is 80x120 feet; has five of J. S. Graham & Co's machines; engine 14x18 inches; two boilers 56x15 inches; 3-foot flues.

We have about 5,000,000 feet of boards on sticks, some of which have been cut twelve months and are thoroughly dry. We will begin work on this stock, and expect to put in dry kilns in the spring.

We will not get in the electric light before next fall.

THE EMPIRE LUMBER CO.

To Rebuild Foundry and Machine Shop.

TRENTON, TENN., Sept. 3, 1888.

Editor Manufacturers' Record:

We shall rebuild either here or at some neighboring point—Memphis, Dyersburg or Jackson. Building to be of brick; workshop 150 feet long by 40 or 50 feet wide.

J. J. WELLS SONS.

Bids for Building Furnaces Wanted.

CARTERSVILLE, GA., Sept. 6, 1888.

Editor Manufacturers' Record:

The Cartersville Steel & Furnace Co. have completed details of construction and specifications for their 75 ton iron furnace and 20 ton ferro-manganese furnace, and the company will be ready to receive bids on Monday, Sept. 10. GEO. W. WARE.

Enlarging Cooperage Works.

CHARLESTON, S. C., Sept. 10, 1888.

Editor Manufacturers' Record:

Our company are making additions to their works at this point amounting to nearly \$10,000, putting in machinery and purchasing our own rolling stock. It is also proposed to erect a large mill at some proper point, in central location, in State of Georgia.

PALMER MFG. CO.

To Build New Factory.

HAGERSTOWN, MD., Sept. 11, 1888.

Editor Manufacturers' Record:

We are about putting up a new factory 150 feet long and 40 feet wide, three stories high. We are going to put in a new engine, 150 horse-power, and add much new machinery to what we have already procured since our late fire. We expect to have everything in readiness by December 1, 1888.

HAGERSTOWN SPOKE & BENDING CO.

Enlarging Guano Works.

SAVANNAH, GA., Sept. 7, 1888.

Editor Manufacturers' Record:

We are enlarging our mill building; also storage sheds and putting in a complete acid plant. The last named is all newly erected.

SAVANNAH GUANO CO.

Dummy Railroad Projected.

HUNTSVILLE, ALA., Sept. 1, 1888.

Editor Manufacturers' Record:

I have made a preliminary survey for a dummy railroad to Shelta Cavern. Mr. H. M. Fuller is president of the company. Messrs. Baldrich, Turner and Cooper are the directors of the enterprise.

J. N. TRIMBLE.

Contemplates Building Street Railroad.

RICHMOND, VA., Sept. 7, 1888.

Editor Manufacturers' Record:

I am an applicant for the right to build, equip and run a street railroad. I hope the right will be granted me at the next meeting of our council.

SHOCKOE HILL & U. DEPOT R. R. CO.

OTTO O. OWENS.

To Build Ice Factory.

OWENSBORO, KY., Sept. 5, 1888.

Editor Manufacturers' Record:

We have organized a stock company of \$50,000 capital for the manufacture of ice, under the name of Owensboro Ice Manufacturing & Cold Storage Co., and have placed order for plant with Frick Co. for 30 tons capacity and 100,000 cubic feet cold storage room. John Reinhardt is president.

JOHN G. DELKER.

Newsy Notes from Mississippi.

[Special correspondence MANUFACTURERS' RECORD.]

ABERDEEN, MISS., Sept. 8, 1888.

The question of erecting a city hall and market-house in Greenville will come up before the city council of that hustling valley city at its next meeting.

Among other structures going up in Greenville is the Vorinus building, 100x50, with complete iron front, the upper story to be a spacious public hall.

The receipts of cotton at Natchez up to August 23d for the season commencing September 1, 1887, amounted to 47,702 bales.

One of the finest cotton factory buildings in the South was erected at Carrollton, in Carroll county, before the war by Senator J. Z. George and other prominent planters, but hostilities came on before the plant was obtained, and the building has been idle ever since. It is an admirable location for parties who have capital to embark in cotton manufacturing.

An insurance company was organized in Natchez last week with a capital of \$100,000, and shares \$100.

Vicksburg has adopted the Rutten system for heating her public school buildings at a cost of \$2,500.

A number of well-to-do Iowa farmers are prospecting for lands with a view to early settlement near Brookhaven, in Lincoln county.

Corinth people claim Sheffield, Ala., as an outlying province, owing to its having furnished it so many of its best citizens.

The two Vicksburg steam cotton compresses have been thoroughly repaired and completely overhauled, and commence the season in condition for work up to full capacity. The work of overhauling one of these great presses can be realized when it is remembered that some of the pieces weigh as much as fifteen tons. The Vicksburg compresses will both use the patent bale ejector this year, invented by Mr. Calder, of that city, which not only takes the bale from the press, but heads it up ready for the truckman.

A movement is on foot among the Greenville merchants to run a steamer between that town and Arkansas City and Carlisle, and make their town independent of the New Orleans, St. Louis and Vicksburg boats.

The new cotton-seed oil mills being erected by a local company under the presidency of Mr. Charles Mulholland, at Vicksburg, will be ready to commence operations by the 15th inst.

The Vicksburg steam ginery, established by the Mulholland Company, has gotten its entire plant in place, and will be able to turn out about 30 bales of cotton a day.

Dr. E. B. Robbins, of Vicksburg, has filed application for patent for an "electric smoke and spark consumer," which can be effectually applied to all kinds of smoke-stacks, and promises to be of great practical use.

It is expected that work will commence this week on the new hotel at Greenville. The building will be three stories in height, and nine roomy stores in addition to hotel offices, bar room, billiard room, etc., will occupy the ground floor. There are to be at least 64 handsome guests rooms and every convenience in the way of parlors, dining rooms, bath rooms, etc.

The process of extracting the honey from the combs in the 275 hives at Dr. Blanton's apiary, near Greenville, in Washington county, commenced last week. The result will be about 30 barrels of choice honey.

Very strong inducements have been offered to Mr. Merrill, of Indianapolis, Ind., to get him to establish his box factory at Little Rock, Ark., but he is so thoroughly convinced that Greenville is the "future great" of the lower valley, that he will not consider any proposition to locate elsewhere.

At the recent meeting of the Farmers' State Alliance at Jackson a committee was appointed to visit the East Mississippi Cot-

ton Mills, in Lauderdale county, near Meridian, for the purpose of receiving a proposition from the owners to sell the same, with a view to its conversion into a factory for the manufacture of a substitute for jute bagging for cotton.

The new artesian well at Columbus is 347 feet deep, and yields 150 gallons of water to the minute.

Kemper county capitalists are investing in real estate in the suburbs of Meridian.

Louisville, the county seat of Winston, county, although not on any railroad or river, is enjoying a "building boom." The new courthouse is about completed; two new churches are being contracted for, and it is likely that many structures will be erected in the next few months.

Corinth is boring an artesian well. The result is a matter of doubt, as the experiment has never been tried in that vicinity before.

Among the inmates of the poor-house of Hancock county, on our south coast—and, by the way, there are only six persons in that county dependent upon county aid—is a negro woman 113 years of age.

The shipments of lumber by sea from Pascagoula, on our south coast, for the week ending August 30, were as follows:

	Feet.
To Colon, U. S. of Colombia.....	192,000
" Havana, Cuba.....	92,000
" Limerick, Ireland.....	50,000
" Cienfuegos, Cuba.....	168,803
" Key West, Florida.....	241,400
	7,158,101

Shipping operations were considerably interrupted by the recent storms in the Gulf of Mexico.

The logging streams in South Mississippi are all in fine condition for rafting.

A steam cotton compress company has been organized at Durant, in Holmes county, the junction of the Aberdeen Division of the Illinois Central Railroad. The machinery has been ordered, and it is expected that the compress will be ready for work before the first of October.

Mr. Morris has erected a saw mill in full blast at Perkins, on the Gulf & Ship Island Railroad, in Harrison county, with capacity of about 15,000 feet a day. Mr. Graves has established a brick-yard at that new opening in the piney woods, and is doing a flourishing business.

The W. T. Adams Foundry & Machine Co., at Corinth, has 120 men on its pay-roll, but is advertising for more skilled machinists, and is working under heavy pressure of orders from all the Southern and Western States. The company is turning out from seven to ten complete steam engines per week, besides a large quantity of other machinery.

The surveys for the proposed road from Helena, Arkansas, across the State of Mississippi, to Decatur, Ala., crossing the Mobile & Ohio and Kansas City, Memphis & Birmingham Railroads at Tupelo, in Lee county, will commence this week, with Gen. A. K. Robinson, of New York, as chief engineer.

The Starkville Cotton Warehouse Co. is making extensive additions and improvements to its buildings.

Hon. H. L. Maldrow contemplates the erection of an ice factory at his creamery at Maldrow Station, in Oktibbeha county.

Boonville is making large shipments of peaches and other fruit to Mobile and Chicago.

Mr. B. W. Bryant, of Boonville, in Prentiss county, is making extensive additions to his saw mill preparatory to putting in a planing machine. He will probably add a box factory next season.

Cotton in small quantities is going to market all over the State, put up in osanburgs and other substitutes for jute bagging. The Mississippi planters are obstinately resisting the exactions of the "Bagging Trust," and while they will be forced by the necessities of the position to succumb to some extent, it will only be after every other resource has been exhausted, and the result

will be that hundreds of thousands of bales will escape the tribute, and the Bagging Trust's sales for the season will be proportionately reduced. The Aberdeen Examiner and many other journals are appealing to the planters to the end that each shall experiment with osanburgs or some other substitute for jute bagging to the extent of two or three bales of cotton this season, and several of the county alliances have resolved not to use any jute bagging until October. There is no doubt but that the jute bagging manufacturers will find many competitors in the field next season with acceptable and economical wrappings for cotton bales.

Business Chances.

In our advertising columns to day there will be found special advertisements of interest to many readers.

Mr. Geo. M. Hope, of Atlanta, Ga., offers for sale a furniture factory equipped with full line of machinery; also 3,000 dogwood blocks for shuttles, and a lot of special tools, &c.

The machinery for a 50-barrel roller flour mill is wanted by Mr. Wm. H. Ford, of Lynchburg, Va., and knowing that competition secures the lowest prices, he wisely makes known his wants through the MANUFACTURERS' RECORD.

"Investment," 500 East Market street, York, Pa., offers capitalists and investors an opportunity to procure a limited amount of stock of a manufacturing company in the South.

Correspondence is solicited by a party who will open a commission office in Providence, R. I., for the sale of machinery, electric dynamos, motors, &c. Address box 1,375.

Peter J. Otey, Lynchburg, Va., will receive bids for the sale of \$30,000 of Durham, N. C., county bonds. Bids will be received for a part or the whole, as purchasers may desire.

Matthews & Kirkland, auctioneers, Baltimore, Md., advertise for sale the Oakland woolen factory, situated in Carroll county, Md., on the north branch of the Patapsco river, about 20 miles from Baltimore. The property offered is valuable and the sale positive.

CAPT. J. A. PETERKIN, of Fort Motte, S. C., one of the best known cotton planters in the South and the originator of the Peterkin cotton, the most popular of all new varieties, and now extensively cultivated in all the cotton States, feels satisfied that he has devised a plan of covering cotton with wood which will be a success, and after some investigation in Tennessee and Virginia has ordered machinery that will cut the green timber into rolls, leaving it in about the same shape as the ordinary roll of jute bagging and just as easily handled. He had some of it cut from poplar at a mill in Tennessee. Major L. A. Ransom, of Columbia, writes the MANUFACTURERS' RECORD that Capt. Peterkin "has just put up two bales with this covering and placed them on exhibition in the Department of Agriculture building—One the ordinary commercial bale, the other compressed. The boards are about one-eighth of an inch in thickness and cover the sides of the bales, while short strips of jute bagging cover the ends. The ordinary bale presents a very neat and compact appearance, but the material was badly cracked, although it holds together, and if not further damaged by transportation would amply protect the cotton. These boards were cut from poplar and are thicker than necessary, but are no heavier than the jute bagging. Capt. Peterkin is satisfied that the tupelo, sweet and black gums, being fibrous and very tough, can be used with perfect success. The covering can also be cut thinner and reduce the weight, but it is not desirable to make it of lighter material than the bagging, as the tare has already been fixed for the present season at 28 pounds, the weight of the bagging. Capt. Peterkin thinks that he will be able to furnish enough of the material to cover the crop of South Carolina for this year. His experiment is watched with great interest. All classes unite with the planters in their efforts to defeat the bagging trust."

A FEW days ago, according to the Birmingham Age, the Tennessee Coal, Iron & Railroad Co. contracted with the Central Railroad Co. for the shipment of 15 car-loads of pig iron per day from the Ensley City and the Alice furnaces. The iron is to be shipped to Philadelphia and other Northern and Eastern cities via Savannah. The Central Railroad Co. has for several days past been unable to furnish enough cars to comply with the contract. The freight business over the Columbus & Western Railroad since its opening has been so much larger than was expected that the company is short of rolling stock. As fast as possible new cars will be secured, and the Central will soon be in condition to rush iron shipments through rapidly.

THE Hill Automatic Sprinkler Co., Columbus, Ga., are rapidly introducing their automatic sprinklers in the South. They have them in 30 mills, and others are considering their use. The endorsement of these sprinklers by insurance companies is making an increasing demand for them. This sprinkler is the invention of Mr. John Hill, of Columbus, Ga., one of the most noted mill engineers in the country. His long experience as engineer and builder of the great Eagle & Phoenix mills, of Columbus and others has given him a thorough knowledge of just what was needed in an automatic sprinkler, and he has met the requirements in the "Hill automatic sprinkler," which is rapidly being adopted by the leading mills of the South. Full information as to the cost of sprinklers, their value and the results accomplished in protection from fire will be furnished on application to John Hill, Columbus, Ga.

THE Pomroy Medicine Co., Wallonia, Ky., want to correspond with parties who get up advertising novelties.

St. Louis Iron Market.

Specially reported by ROGERS, BROWN & CO., Gay Building, 304 N. 3rd street, St. Louis. W. H. SHIELDS, Manager.

St. Louis, Sept. 10, 1888.

The market has been quiet for the past two weeks. Business transacted has all been at full prices, as there are no sellers at the figures prevailing a month ago. Missouri charcoal iron that went so low about the middle of August has got back into line with other brands, the advance being \$1 to \$2 per ton. Southern coke No. 2 foundry and mill grades are scarce and almost impossible to get for early delivery. Our cash quotations f. o. b. St. Louis are:

CHARCOAL FOUNDRY.	
Southern No. 1.....	\$18 00@19 00
Southern No. 2.....	18 00@18 50
Missouri No. 1.....	17 00@17 50
Missouri No. 2.....	16 50@17 50
COAL AND COKE IRONS.	
Ohio Softeners.....	18 00@19 00
Southern No. 2 Foundry.....	17 00@17 50
MILL IRONS.	
Missouri.....	16 00@16 25
Southern No. 1.....	15 50@16 00
Southern No. 2.....	15 00@15 50
CAST-IRON AND MALLEABLE IRON.	
Lake Superior.....	20 50@21 50
Southern.....	20 00@21 00
Connellsville Coke, (East St. Louis).....	4 45
Connellsville " (St. Louis).....	4 60

C. R. MAKEPEACE & CO.
ARCHITECTS and MILL ENGINEERS
PROVIDENCE, R. I. Plans, Specifications and Estimates furnished for Cotton and Woolen Mills.

LOCKWOOD, GREENE & CO.

MILL ENGINEERS,
NEWBURYPORT, MASS.

PLANS AND SPECIFICATIONS FURNISHED FOR THE CONSTRUCTION, EQUIPMENT AND ORGANIZATION OF COTTON AND WOOLEN MILLS.

Chattanooga Iron Market.

Specially reported by LOWE & TUCKER, Brokers and Commission.

CHATTANOOGA, TENN., Sept. 10, 1888.

The condition of the pig iron market still shows an advancing tendency, and while there is no particular excitement, there is a great reluctance on the part of producers to accept present prices. Many contend that prices will go considerably higher during the year, while others think that the top of the market has been reached. Be that as it may, matters appear to be in a very satisfactory condition. There is more than a full demand for the capacity of the Southern stacks, and considerable buying is evidently being done for speculative purposes. Upon the whole we place the figures at \$1 to \$1.50 higher than those that ruled two or three weeks ago.

Correspondence Solicited.

By a party who will open a COMMISSION OFFICE in Providence, about Sept. 15, for the sale of all classes of MACHINERY, including STEAM ENGINES, ELECTRIC DYNAMOS and MOTORS and everything pertaining to the MECHANICAL and ELECTRICAL BUSINESS. Twelve years practical experience. Best of reference furnished. Address, Box 1375, Providence, R. I.

CAPITALISTS AND INVESTORS

are now offered an opportunity to procure a limited amount of stock of one of the best manufacturing plants in the South. A safe and profitable investment that will pay 50 per cent. This stock is offered for sale in order to further a new project of great interest to the plant. This will bear the closest investigation and is a rare opportunity. Address "INVESTMENT," 500 E. Market St., York, Pa.

PLANS, SPECIFICATIONS AND ESTIMATES

will be received by the undersigned until the 10th day of October, 1888, for fitting up a fifty barrel (in 24 hours) Flour Mill, with improved machinery, roller process complete. The building is now completed, and is situated on the railroad track in Lynchburg, Va., 42x100 feet; four stories; basement attached; height 1st story, 9 feet; 2d and 3d, 10 feet; 4th, 11 feet, with Forebay, Penstock and water wheel now completed and in place. All of above machinery to be put in place and at work by January 1, 1889.

WM. H. FORD, Lynchburg, Va.

Proposals for Sale of Bonds.

Sealed bids will be received for the sale of \$30,000 of Durham, N. C., county bonds until Saturday, September 15, 1888, at 12 o'clock m., privilege being reserved to reject any and all bids. Bids will be received for a part or the whole as purchasers may desire.

These bonds are issued by virtue of authority vested in the Board of Commissioners pursuant to an election held on the 17th day of July, 1886, and in accordance with sections 1,996, 1,997, 1,998, 1,999 and 2,000 of the Code of the State of North Carolina. They are in denominations of \$1,000 each, bearing 6 per cent. interest, as evidenced by coupons payable semi-annually, in April and October, at the office of the Mercantile Trust Company, of Baltimore, dated January 1st, 1887, and payable twenty years after date.

For any further information address the undersigned, PETER J. OTEY, President, Lynchburg & Durham R. R., Lynchburg, Va. Bids should be addressed as above and marked "sealed bid" on the outside of the envelope.

Oakland Woolen Factory

Situated in Carroll county, Md., in the most healthy part of the State, on the north branch of the Patapsco river, about twenty miles from Baltimore, four miles from the Western Maryland Railroad at Owings Mills, and about the same distance from the Baltimore & Ohio Railroad. Will be sold by PUBLIC AUCTION in the REAL ESTATE EXCHANGE, No. 122 East Fayette street, Baltimore, on WEDNESDAY, OCTOBER 17th, 1888, at one o'clock P. M. The sale is positive to close an estate. The property contains 81 acres of land, more or less, 35 acres under cultivation, the balance in wood, with a never-failing water supply of thirty horse power. Improved by a factory building, with two sets of woolen machinery run by a Leffel Turbine Wheel, Picking House, Stock House, Dry House, Drying Platform and Tenter Bars, Mansion House, with ten rooms, Ten Tenement Houses, Bank, Barn and Stable.

TERMS—\$3,000 in cash, balance in installments in any reasonable time the purchaser may desire, with interest at 6%. Any further information desired will be furnished on application to the undersigned.

MATTHEWS & KIRKLAND,
Auctioneers.

TO MANUFACTURERS!

I have a Brick and Iron Warehouse, 50x120 feet, 3 stories 7-foot dry cellar; 190 feet private side track on railroad; well located for a small factory. Will put in building and some cash with any one who will use it as a factory. Good location. 30,000 people. Seven railroads. Navigable river. Address J. A. WALKER, Columbus, Ga.

YOUNG MAN, GO SOUTH!

Here's a Chance For You!

A live, go-ahead person with some musical experience, or better still a musician, can get an opening in a healthy and prosperous business in the Model City, the most progressive town in the South. \$2,000 to \$3,000 necessary. No retired capitalists or sleepy heads need write; we want a "pusher." Address THE AMUSEMENT MUSIC & ART HOUSE, Prof. N. E. Solomons, Manager, Anniston, Ala.

TO IRON & STEEL MASTERS.

FOR SALE. —A body of MAGNETIC IRON ORE AND MANGANESE LAND on D. & New River R. R., Patrick county, Va., 30 miles from recent developments in Stokes county, N. C., made by Mr. Edward Shelley, M. E. Apply to WM. S. FLOYD, BALTIMORE, MD.

FOR SALE Cotton & Woolen Machinery,

In full lines for both plain and fancy manufacturing in all departments, in stock. Also for Bleaching, Dyeing and Printing. Engines, Boilers, Tools and Supplies.

W. SEABURY SIMMONS.

92 Chambers Street, New York.

Receiver's Sale.

About 3,000 dogwood blocks, got out for shuttles; seasoned five years and in perfect order; also lot oak and poplar lumber. 50 new boiler tubes, 15 feet by 3 1/2 inches. 1 pair good mules and furniture wagon. Lot tools of various kinds, including portable forge, anvil and vices, circular and band saws. Lot supplies, including furniture hardware, bagging, varnish, glue, etc. One membership in Chamber of Commerce. Will negotiate for sale of factory with complete machinery for manufacture of furniture or other woodwork sufficient to employ sixty hands, with 2 1/2 acres land, favorably situated on Air-Line road, near Highland avenue, with side track, conveniently located for a large business. Apply to

GEO. W. HOPE, Receiver, Atlanta, Ga.
100 Peachtree St., or at factory from 10 to 1 o'clock.

FOR SALE. MACHINERY AND CHAIN OF MARINE RAILWAY.

One Horizontal Cylinder BOILER, 24 feet long by 34 inches diameter, with steam drum 30 by 30 inches, estimated 30 horse power.

One ENGINE, 24 by 10 inches cylinder, estimated 25 horse power.

One complete (heavy) set of Triple GEARING; will haul out a vessel of 500 tons.

One two inch Stud-Link CHAIN, (50 fathoms), hand-made, of best iron.

One old Cylinder BOILER, 24 feet by 24 inches, used as water-tank.

Engine and Machinery in complete order. Boiler in good order, sustaining a hydraulic pressure of 100 pounds to the square inch. Apply on the premises, No. 1315 Philpot Street, or to

GEO. W. CORNER,
11 South Gay St. Baltimore, Md.

Cotton and Woolen MACHINERY.

50 Crompton Fancy Cotton Looms, nearly new, 36 inch reed space, for 12 Harnesses, 4 boxes at one end, 1 at the other.

My Store Houses here have over 2 ACRES of floorage, which is covered with good machinery, including nearly full systems for Cotton and Woolen Mills.

■ JEREMIAH CLARK, ■
Lowell, Mass. Office, 108 Middle St.

BANKERS AND BROKERS.

WILSON, COLSTON & CO. [Members of Baltimore Stock Exchange.]
Bankers & Brokers,
216 E. Baltimore Street, Baltimore, Md.

Investment and Miscellaneous Securities a specialty, and large lines handled. Exceptional facilities for dealings in all classes of Southern Bonds. Loans on Collateral Securities negotiated. Quotations and information furnished on application, and correspondence invited.

UNION LOAN AND TRUST COMPANY,
BOSTON, MASS.

Incorporated 1885. Capital Stock \$1,000,000.

Authorized by charter to receive, hold and disburse money, securities or property in trust, and act as financial agent for any person, firm or corporation, National, State or Municipal authority.

Special Attention will be given to the Negotiating of Southern Bonds and Mortgages.

This Company has superior facilities for making collections throughout the entire country, having correspondents and agents established at all points. Correspondence invited.

GRIST MILL FOR SALE.

The undersigned offer for sale the following Grist Mill, etc., the same now located on their premises, where room and power can be hired if desired:

1 Run 48 "French Buhr Stone."
2 " 36 " " " "
Conveyors, Bins, etc. Also Flour Packer and Mixer. Apply to

SLATER MILL AND POWER CO.
Providence, R. I.

FOR LEASE.

The Privilege of Bottling, Selling and Shipping the NATURALLY ELECTRIFIED MINERAL WATERS OF THE GEORGIA ELECTRIC MOUND COMPANY at the CELEBRATED ELECTRIC HEALTH RESORT OF HILLMAN.

By the use of these famous Waters the most astonishing cures have resulted in cases of Rheumatism, Neuralgia, Dyspepsia, Kidney Diseases, Liver Troubles, Insomnia, Loss of Appetite, Nervous Prostration, Diseases peculiar to Women, Paralysis in its Early Stages, Overtaxed Mental Faculties, Excessive Indulgence in Alcoholic Stimulants and General Debility.

For full information, address
B. F. BROWN,
Hillman, Taliaferro Co., Georgia.
Resort Open the Year Round. First-Class Hotel Accommodations.

FOR RENT

FOR

Manufacturing Purposes.

The Shops of the Norfolk & Western Railroad Company at Petersburg, Va., made vacant by the removal of Division Shops to Crewe, Va. The buildings are located upon a tract of about five acres of ground, with side-tracks reaching each building. They consist of

One (1) Building, 63ft.x180ft.
One (1) Building (Machine Shop and Smith Shop, with Engine and Shafting), 60ft.x132ft.

One (1) Building (for Boiler and Steam Hammer), 46ft.x60ft.

One (1) Building (Foundry), 56ft.x81ft., with two (2) extensions 20ft.x40ft.

One (1) Building (Car and Wood Working Shop), 63ft.x128ft., with addition 45ft.x46ft.

The buildings are mainly of brick, with metal or slate roofs.

The location at Petersburg, with cheap supplies in the way of coal, coke, pig iron, bar-iron, lumber, etc., makes the location a favorable one for the manufacture of cast-iron water pipe, or the establishing of a foundry and machine works, wagon works, or agricultural implement manufactory.

Parties desiring to examine the grounds and buildings can see descriptive maps by calling upon H. V. L. Bird, Agent Norfolk & Western Railroad, Petersburg, Va.

For further information and map of the grounds and buildings, with terms of rental, apply to JOS. H. SANDS, General Manager, Norfolk & Western Railroad, Roanoke, Va.

For freight rates on manufactured articles, raw material and sources of supply, address A. POPE, General Freight Agent, Roanoke, Va.

OHAS. G. EDDY, Vice-Prest.,
ROANOKE, VA.

SPECIAL NOTICE**AND SALE OF
Extra Quality Rubber Hose.**

We have on hand and will close out at the following specially low figures:

3,000 ft. 1/2 inch 3-ply hose at 10 and 12 cts. per ft.	1,000 "	1 1/2 "	3 "	19 "
3,000 ft. 1 inch 4-ply best quality steam or air-brake hose, suitable for brewers' and general use, (where first-class hose is required) at 30 cts. per ft.	1,000 "	1 1/2 "	3 "	24 "
1,700 ft. 1 inch 3-ply hose, at 15 cts. per ft.	900 "	1 1/2 "	3 "	24 "
1,000 "	750 "	1 1/2 "	3 "	24 "
1,000 "	500 "	1 1/2 "	3 "	27 "
1,000 "	700 "	1 1/2 "	3 "	30 "
1,000 "	1,000 "	1 1/2 "	3 "	35 "

at 55 cts. per ft.

All the above hose is strictly first-class quality, and we shall be pleased to have your orders for 50 to 100 feet or more.

REUTER & MALLORY,
22 LIGHT STREET, Baltimore, Md.

For Sale!

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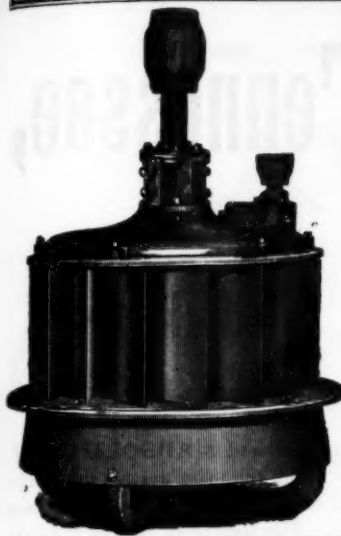
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Forbes Patent Die Stock

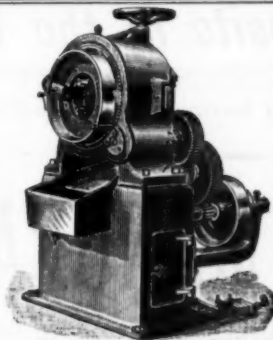
PIPE CUTTING AND THREADING MACHINES, &c.

For hand or power.

A Portable Cutting and Threading Machine, with which one man can with ease thread pipe up to six inches diameter.

NO VISE REQUIRED.

SEND FOR ILLUSTRATED CATALOGUE.



D. SAUNDERS' SONS,

MANUFACTURERS OF THE ORIGINAL

TRADE **I.X.L.** MARK.

Pipe Cutting and Threading Machine.

BWARE OF IMITATIONS. None genuine without our Trade Mark and name. Also

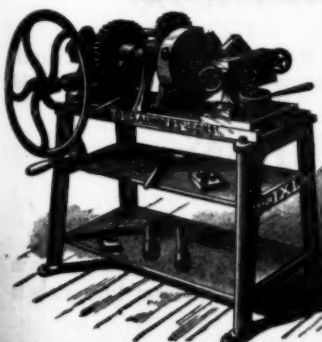
Patent Wheel Pipe Cutter

STEAM AND GAS FITTERS' HAND TOOLS,

Pipe Cutting and Threading Machine

For Pipe Mill Use a Specialty. Send for Catalogue B.

YONKERS N. Y.



U. S. GUTTA PERCHA PAINT



AWARDED GOLD MEDAL
New Orleans Exposition,
1884 and 1885.

Also received
HIGHEST AWARD
From the American Institute,
New York, 1887.

**Elastic,
WATER-PROOF,
Durable.**

The remarkable and only process of combining GUTTA PERCHA and other valuable materials with Linseed Oil without the use of injurious solvents is controlled and worked by this company. We manufacture by this process a preparation which has

NO EQUAL IN THE WORLD

for coating over any surface, **INDOORS OR OUTDOORS**, where Paint is ever required. Because of its peculiar texture and elasticity, which allow it to expand and contract with the surface it covers **WITHOUT CRACKING**, it is especially adapted for use in either hot or cold climates. Send for particulars and prices. Pamphlet on "Paint and Method of Manufacture" sent free to any person requesting it.

J. WM. RICE,

President and Genl. Mgr.

PROVIDENCE, R. I.

A. HOEN & CO.

LITHOGRAPHERS, BALTIMORE MD.

Our facilities for the production of

**ARTISTIC
Color Work**

AND ALL STYLES OF
Fine Commercial Engraving

Are Unsurpassed.

All work executed under careful and personal supervision at prices consistent with first-class productions. Sole proprietors of the

CELEBRATED

LITHOCHROMATIC PROCESS

Branch Establishments:

New Building, **ROCHESTER, N. Y.**



ESTABLISHED 1836.

RICE CLEANING AND SEPARATING MACHINERY, JOHNSON & FIELD, RACINE, WIS.

PAPER MILL MACHINERY, BELOIT IRON WORKS, BELOIT, WIS.

DEFIANCE PAINT WORKS, Cincinnati, O., Ready Mixed IRON ORE PAINTS, ASPHALTUM VARNISH, JAPAN DRYERS PAINT OILS.

ATHENS, East Tennessee,

THE COMING

→ Iron and Manufacturing City of the South. ←

Athens is the county seat of one of the most fertile counties in East Tennessee. The health of the city is unsurpassed, and is **ABSOLUTELY FREE FROM ALL MALARIAL OR EPIDEMIC DISEASES**. The surrounding scenery is very fine. From the main avenue the whole valley of East Tennessee can be seen, from the Cumberland Mountains on the west to the Great Smoky Mountains on the east; some of the tallest peaks east of the Rockies being in full view. **FINE MINERAL SPRINGS** are adjacent and are popular summer resorts. The society of Athens is excellent. A cordial welcome is extended to all law-abiding people locating in the town. The **EDUCATIONAL FACILITIES** are good. Beside public and preparatory schools, Athens is the seat of **THE GRANT MEMORIAL UNIVERSITY**, which has an enrollment of over 300, and whose graduates include some of the most distinguished citizens in the country. Among the industries and institutions of the place in active operation are:

THE ATHENS BUILDING & LOAN ASSOCIATION, \$250,000. **THE ATHENS WOOLEN MILLS, \$100,000.**

THE FIRST NATIONAL BANK, \$50,000.—To be increased at once.

FOUNDRY & MACHINE SHOPS, \$25,000.

FURNITURE WORKS, \$15,000.

FLOURING MILLS, \$20,000, etc.

500 men are now at work on the new railroad from Athens to the

RICHEST IRON FIELDS IN THE SOUTH

JUST EAST OF THE TOWN.

Only eight miles from Athens are **VEINS OF RED FOSSILIFEROUS ORE 11½ FEET THICK**, and 4 to 12 miles beyond are **THE LARGEST DEPOSITS OF BROWN ORES IN THE SOUTH**. The ores of both varieties, in addition to being inexhaustible, are both superior in quality to any ores of either variety at present mined in the South. An assertion that can be sustained. Coke can now be obtained at the lowest prices, and in addition a new railroad is now projected to the Cumberland Coal Fields, only 22 miles distant. These roads will give Athens **UNSURPASSED SHIPPING FACILITIES**. The road under construction will penetrate large deposits of Tennessee Variegated Marble; also an Unopened Timbered Region, and will develop the

Largest Colored Slate Deposits in the United States.

These quarries are now being opened, and are pronounced by experts Absolutely Inexhaustible, and equal in quality to the finest Vermont Colored Slate.

The ATHENS MINING & MANUFACTURING CO.

Have alone just contracted for the erection of over

\$500,000 IN NEW MANUFACTURING ENTERPRISES

At Athens, including a 100-ton Blast Furnace, cost \$200,000; Cotton Mills, cost \$150,000; Furniture Works, employing 200 men, cost \$100,000; Hotel, cost \$60,000; Water Works, Street Car Lines, &c. These improvements have been commenced which, added to other improvements projected, will add

\$1,000,000 OF NEW MANUFACTURING ENTERPRISES TO ATHENS.

The company desire to open correspondence with parties desiring to locate, and will extend liberal inducements in addition to gifts of sites in order to induce New Manufacturing Enterprises to locate in Athens. City property is doubling in value every few months, and at present low prices is beyond question a very fine investment.

The Athens Mining & Manufacturing Company,

R. L. BRIGHT, President

R. J. FISHER, Secy. and Genl. Manager,

ROME, GA.

OF all the growing cities in the growing South, Rome presents the greatest opening for money-making investments. With surrounding fields as rich as the lands of Goshen, with exhaustless deposits of brown and red Iron Ores and Manganese immediately at hand on all sides, with mountains of Marble and Limestone coming right up to the city, with an abundance of the best Coal easy of access, areas of untouched forests, and with seven railroad outlets and two navigable rivers, Rome stands, in natural advantages, pre-eminently above any other proud and pretentious city within the limits of this proud and ambitious commonwealth.

THE HEALTH OF ROME IS UNSURPASSED.

*THE UNUSUALLY LOW DEATH RATE IS A PHENOMENON,
STANDING WITHOUT A PEER AT 8.40 PER THOUSAND.
NOT ONE CASE OF CATARRH OR CONSUMPTION EXISTS OR
EVER ORIGINATED WITHIN HER LIMITS.*

Rome has 12,000 inhabitants, has invested in colleges and school buildings about \$300,000; in church building over \$100,000; in her new hotel \$125,000; in the dummy line, just completed, over \$50,000. Her manufactories employ 800 hands, with other enterprises now going up. Her system of water-works and sewerage is unsurpassed. The city is lighted with gas, and negotiations for an electric light plant are now pending. The highways leading to the city are all well macadamized. The Post-office Department has recently made Rome a free postal delivery office. The annual business of the city is about \$12,000,000, with the trade constantly increasing. The yearly range of temperature at Rome, between the average highest and lowest, is about 84 degrees; the mean temperature is 60.6 degrees. About seven months intervene between the first and the last killing frosts of the year. There is no better society to be found anywhere.

The Rome Land Company (J. W. Rounsaville, President, T. F. Howell, Treasurer, and J. L. Bass, Secretary and Business Manager) will donate ample grounds to, and otherwise aid, any worthy manufacturing enterprise that may locate here.

Send for circulars and pamphlets.

HOOPES & TOWNSEND,

MANUFACTURERS



**MACHINE AND CAR BOLTS,
KEYSTONE BOILER RIVETS,**

MADE IN SOLID DIES,
COLD PUNCHED, CHAMFERED, TRIMMED &
DRILLED SQUARE & HEXAGON NUTS.

Bridge Rivets,

Split and

Single Keys.

WASHERS,

Tank and Coopers'

RIVETS.

PHILADELPHIA, PA.

ESTABLISHED IN 1868.

Richmond Locomotive & Machine Works

RICHMOND, VA.

BUILDERS OF

LOCOMOTIVES.

Standard and Narrow-Gauge, for
for every variety of service. Pole
Road Locomotives and Cars, the only
successful device of the kind made.

Stationary and Portable **ENGINES.** 12 to 300 Horse-Power.

Standard and Special, 12 to 300 horse-power.
Gas, Water, Creosoting and other heavy ma-
chinery. Catalogues, specifications, photo-
graphs and estimates furnished on application.

BOILERS.

STEEL RAILS

PENNSYLVANIA

Standard Sections
Light Sections
Street Rails

Fish Plates,
Frogs, Switches

STEPHEN W. BALDWIN
SALES AGENT

STEEL COMPANY

50 to 80 lbs. per yard
16 " 45 " " "
30 " 88 " " "
Bolts & Nuts,
and Crossings.

NO. 2 WALL STREET
NEW YORK N.Y.

16 lbs. Full Size.

❁ **BUCYRUS FOUNDRY & MFG. CO.**

BUCYRUS, OHIO.

Builders of—❁

Steam Shovels,

Steam Dredges,

WRECKING CARS. ❁

Railway, Mining and Furnace Supplies,

PIG IRON, COAL AND COKE.

G. HERBERT ELLERBE,

SUCCESSOR TO
MINNIGERODE & ELLERBE.
P. O. Box 798.

BIRMINGHAM, ALA.

FOR THE LATEST IMPROVED

GAS WORKS APPARATUS AND HOLDERS,

ADDRESS

KERR-MURRAY MANUFACTURING CO., FORT WAYNE, IND.
PLANS, ESTIMATES AND DRAWINGS FURNISHED.



**The STANDARD
Steel Works,**

—MANUFACTURERS OF—

Locomotive and Car Wheel

TIRES.

OFFICE: 220 SOUTH FOURTH ST.
PHILADELPHIA, PA.

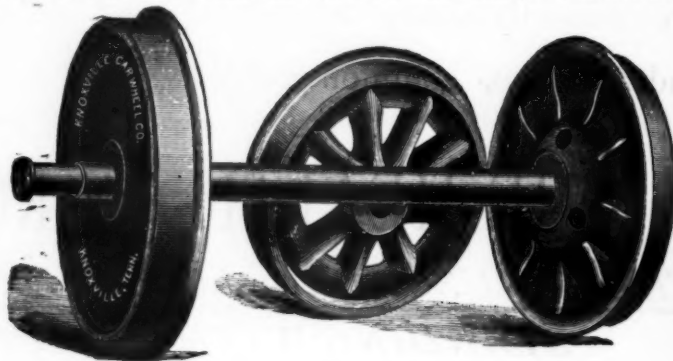
Knoxville Car Wheel Co.

—KNOXVILLE, TENN.—

Manufacturers of All Kinds of

CHILLED WHEELS

For Railroads, Street Railroad, Ore and Coal Mines, and Lumbermen.



Steam Hammers,
Steam Hoists,
Foundry Cupolas,
Derricks, Crabs,
Horse Powers,
Shieves, Drill Heads,
Gearing, Pulleys,
Bolts of all sizes,
Locomotives and Engines
Repaired and Indicated.

CORRESPONDENCE SOLICITED.

Steel and Iron Boilers,
Guild's Automatic
Boiler Cleaner,
Car and Locomotive Castings,
Soft Iron Castings of all kinds.
Heavy Castings a specialty.
Wheels mounted on Axles if
desired, with Oil Boxes
and Bolts.

MENTION THIS PAPER.

JOHN STEPHENSON COMPANY, NEW YORK



TRAMWAY CARS OF EVERY DESCRIPTION
LIGHT, ELEGANT, DURABLE

DETROIT FOUNDRY EQUIPMENT CO.

DETROIT, MICH.

MANUFACTURING

Whiting's Improved Car-Wheel Foundry Plant, Improved Cupola,
Improved Overhead Steam Crane, Improved Car-Wheel Chills,
Improved Transfer Trucks, Improved Device for
Operating Foundry Ladles, Improved
Reversible Friction Gearing.

Steam and Power Cranes Castings of all Descriptions, Ladles, &c.

TRADE NOTES.

MR. GEO. W. CORNER, 11 S. Gay street, Baltimore, advertises in this issue the machinery and chain of a marine railway, consisting of 30 horse-power boiler, 25 horse-power engine, complete set of triple gearing, 50 fathom hand-made 2-inch chain, &c. This machinery is in good order, and buyers will find it as represented.

THE Hughes Steam Pump Co., Cleveland, Ohio, have, through Messrs. Donegan & Swift, New York, their agents for the Eastern States and export trade, made quite a large shipment of single and duplex pumps to South America. The demand for these pumps is steadily increasing, which is good proof of their efficiency and popularity.

EZRA F. LANDIS, Lancaster, Pa., writes as follows: "The Mount Penna Stove Works, Reading, Pa., have added to their extensive manufacture of stoves, ranges and heaters the Landis patent steam and hot water radiators. The Johnstown Steel & Iron Co., of Johnstown, Pa., are extensively engaged in the manufacture of this radiator also."

THREE new marine steel boilers of 150 horse-power each, which can be used together or separately, are offered for sale by the Filer & Stowell Co., of Milwaukee, Wis. These boilers are stored at Apalachicola, Fla., and manufacturers in the South needing boilers of this size will find it to their advantage to write to the Filer & Stowell Co. for terms.

BUYERS of rubber hose will find the advertisement of Messrs. Reuter & Mallory on page 27 of special interest. They have on hand about 15,000 feet of extra quality rubber hose, from 3/4-inch to 2 1/2 inches, which they will close out at low figures. This is a most excellent opportunity for mill owners and others who need hose to purchase now at low prices.

JOYCE, CRIDLAND & Co., Dayton, Ohio, who manufacture a large and complete line of hydraulic jacks for railroad and kindred uses, have recently perfected a jack designed to fill all the requirements of stone and marble quarries. A descriptive circular, with cut and prices, will be sent to any one upon application. Correspondence with Southern quarries and railroads is solicited.

THE Buckeye Iron & Brass Works, of Dayton, Ohio, manufacturers of cotton-seed oil and hydraulic machinery, have been doing a very heavy business during the past season, much of it being from the South, where their machinery is well and favorably known. They are now engaged in filling a large contract in the Northwest for linseed oil machinery. Photographs of oil machinery will be sent to parties interested.

THE Chattanooga Paint Co., of which Mr. S. B. Lowe is manager, are now turning out 72 tons of paint a week and are running 23 1/2 hours a day to meet their orders, only stopping long enough to clean the grates. The shipments of the commodity are made principally to Mexico, Oregon, Texas, California, and the border States, but the interior is not behind hand in orders, and the company reports a steady patronage from all sections of the country.

C. W. RAYMOND & Co., of Dayton, Ohio, have had a splendid business during the past season with their celebrated hand power re-press brick machine. Mr. Raymond is now perfecting a larger size to be operated by steam power. The new patent dump car designed for railroad construction and use in coal and iron mines and phosphate beds is attracting considerable attention. It is one of the most ingenious and labor saving inventions of the age in its line.

W. P. CALLAHAN & Co., of Dayton, Ohio, are running night and day to fill their orders for cotton compresses, linseed and cotton-seed oil machinery. Their new cotton compresses have many valuable improvements that will be appreciated when known.

THE new air compressor made by the Ingersoll Rock Drill Co., of New York, is meeting with much favor. The company has received orders for its compressors beyond the shop capacity. Two large machines, cylinders 20 by 30 in., were recently shipped to the Louisville Water Co., and an order has been received from the Kalamazoo Spring & Axle Co., of Kalamazoo, Mich., for one of the new style compressors to be used for spraying oil in connection with fuel atomizers. The new regulator applied to the Ingersoll compressor automatically applies and releases the load, accomplishing a great saving in fuel and perfect regularity of action. Another important attachment to this compressor is a crosshead which is so attached to the piston rods that the wearing of the crosshead in the guides does not bring the weight of the crosshead on the rods.—Railroad Gazette.

THE attention of the trade is called to the following notice:

PHILADELPHIA, August 21, 1888.

This is to inform the public that we have transferred our business to Chambers Brothers Company, a corporation organized under the laws of the State of Pennsylvania. The stockholders of the new company comprise the members of the old firm of Chambers, Brother & Co., and there has been no change in the management of the business, except that it will hereafter be carried on by a corporation in lieu of a partnership. We continue the same capital, and assure our patrons the same facilities and advantages as heretofore, and trust you will extend the same favor to the corporation as to the old firm. Very truly yours,

CHAMBERS, BROTHER & Co.

Cyrus Chambers, Jr., president.
J. Howard Chambers, secy. and genl. man.
S. Bernard Chambers, treasurer.

THE Insurers' Automatic Fire Extinguisher Co., of New York, was incorporated August 6, 1888, for the purpose of carrying on the business of manufacturing automatic fire sprinklers, and equipping property with wet and dry pipe systems, and also to deal in all fire extinguishing appliances. They have purchased of the Edward Barr Co., Limited, all the rights formerly owned by that company in the Gray automatic sprinklers and the Gray independent dry pipe systems, both compressed air and vacuum, patents for which were originally issued to Frank Gray and W. S. Gray under letters patent Nos. 307,456, 341,903 and 357,987. This gives the Insurers' Automatic Fire Extinguisher Co. the exclusive control of what is known as the Gray dry and wet pipe systems and the Gray automatic sprinklers. They have also purchased of the Edward Barr Company, Limited, all the stock and materials required, and will continue in their employ the force of mechanical engineers, draftsmen, foremen and skilled mechanics necessary to carry on the business in all its details.

Important.

When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first-class hotel in the city.

THE Palace Hotel, Cincinnati, Ohio, is said to enjoy the reputation of being the best \$2 hotel in America. 250 rooms; 140 front rooms. All conveniences and excellent cuisine.

THE cuisine and excellent management of the American House, Boston, continue to command most favorable comment, and a "full house" is the response of appreciation which the public bestow on the efforts of its proprietor.

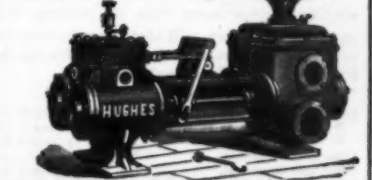
THE hotels at Lake Chautauqua have decided to remain open during the month of September to accommodate the growing patronage of this beautiful and popular resort. September is one of the best months in which to visit Chautauqua. Good hotels, fishing and boating. High altitude and pure, dry air. Write for descriptive pamphlet to W. C. Rinearson, assistant general passenger agent, Cleveland, Ohio.

WESTPHAL'S IMPROVED REVOLVING SCREW BOLT AND SHOT CASES.
ADJUSTABLE FIRE BACKS AND LININGS FOR COOK STOVES.
IRON STORM THRESHOLDS.
SEND FOR ILLUSTRATED CIRCULARS.
SCHENCK'S ADJUSTABLE FIRE BACK CO.
94 MARKET STREET, CHICAGO.

"The Collier" New and Improved HOT BLAST SUPPLY, (patent March, 1884), and New Smokeless and Automatic Feed Boiler, (patented 1886 in U.S.) Correspondence solicited for plans of foundries and the economical working of cupolas, the saving of fuel in melting iron and steel, and in the production of steam. Address VICTOR COLLIER, Mechanical Engineer and Architect, 287 Jefferson Avenue, Detroit, Michigan.

STEAM PUMPS

For every duty. Best Materials only used. Fully guaranteed and tested. It will pay you to write for prices.
HUGHES STEAM PUMP CO., CLEVELAND, OHIO.
Donegan & Swift, New York Agents.



C. P. TURNER, 328 Market St., Manufacturer of SAWS. Agent for Page Belting Co., belting fully warranted. Full stock of Files, Saw Gummies and Swedges. Repairs a specialty. Workmanship unsurpassed. Skilled labor employed. Write for discount. Chattanooga, Tenn.

The Best is the Cheapest
THE Siphon Oiler
IS THE BEST.
For sale by all Supply Houses.
MADE BY
H. A. Williams Mfg. Co.
TAUNTON AND BOSTON, MASS.

BOOKS Relating to Mechanical, Mining and Electrical Engineering. Descriptive Catalogue and information about any book sent promptly on application.
E. & F. N. SPON,
12 Cortlandt Street, - NEW YORK.

JOHN WILEY & SONS, 15 ASTOR PL. New York.

Scientific and Industrial Works.
Send for Catalogues and Circulars—Free by mail.

SUCCESS WATER WHEEL.



This Wheel is strong and durable. Excelled all other wheels in the great trial tests. Is in use all over the nation. I also make a specialty of

Heavy Gearing and Machinery for Paper, Cotton And GRIST MILLS.
B. MORGAN SMITH
YORK, PA.

— FOR THE BEST —
BOILER COMPOUND,
ADDRESS
THE INTERNATIONAL MFG. CO.
280 Pearl St., CLEVELAND, OHIO.

Apix Engine on Cornish Boiler.
The cheapest, friction, horizontal engine in the market. Engines of all kinds, for Sawing, Threshing, and Grinding, a specialty. Saw and Grist Mills, Threshing Machines, etc., a specialty. Send for illustrated Circulars.
A. B. FARGUE, New York, Penna.

Chamberlin Cartridge Co.
CLEVELAND, OHIO.

The Only Perfect Ammunition
FOR BREECH-LOADING SHOT GUNS.
Illustrated Pamphlets free to Sportsmen and Hardware Trade upon application.

BRICK AND TILE MACHINERY
BEST IN THE WORLD.
Send for circular & prices.
J. W. PENFIELD & SON,
Wilmington, Ohio.
Stands Unrivaled. Look Box 26.

— For the Latest Improved —
FAST FEEDING

Planing Mill Machinery,

ADDRESS THE
Preble Machine Works Co.,
CHICAGO, ILL.

DON'T BUY AN ENGINE OR BOILER

Until you have seen our circulars. Engines complete from 5 to 110 horse power, both Vertical and Horizontal, at prices below those of other reputable makers. 1400 in use. Boilers of every style. Automatic Engines for Electric Lights. Centrifugal Pumping Machinery for Drainage or Irrigation. Established 25 years. Perfect satisfaction guaranteed. Ask for Circular M and address

Morris Machine Works,
BALDWINVILLE, N. Y.

PERFORATED METAL
FOR
COTTON SEED OIL MILLS
RICE MILLS
MINING SCREENS &c
THE ROBERT AITCHISON
PERFORATED METAL CO.
76 Van Buren St. Chicago Ill.

OFFICE MANUFACTURERS' RECORD,
BALTIMORE, September 12, 1888.

Baltimore Charcoal Wheel Iron.....	\$8	00	99	00
Virginia C. B. Charcoal Wheel Iron....	28	00	99	00
Anthracite, No. 3.....	18	00	99	00
" " 4.....	17	00	99	00
" " 5.....	16	00	99	00
" " Mottled and White.....	14	00	99	00
Steel Rails.....	24	00	99	00
Use Rails.....	28	00	99	00
Old Steel Rails.....	80	00	99	00
No. x Wrought Scrap.....	81	00	99	00
Coke Car Wheels.....	18	00	99	00

Nails are quoted as before, \$1.90@2.

PHILADELPHIA, Sept. 11, 1888.

Skelp iron has sold freely at 1.80 to 1.85. After being very dull for two months, nails are again quite active. Bottom price for the cheapest kind, \$1.75; retail price, \$2. Plate iron is under better inquiry, but large orders are held back. Bridge builders are asking for quotations for about 2,000 tons in all. Steel rails are quoted down to \$28, but for the ordinary small lots selling \$29 is paid. There is a great stir after old rails, and there are none in the market.

Specially reported by WARREN, WOOD & Co., Pig
Iron, 115 Broadway.
NEW YORK, Sept. 11, 1888.

The past week has been a quiet one, and but few sales are reported, except of small lots for immediate delivery. The recent improvement in prices in the West have not been met with a proportional advance in the Eastern markets, and owing partly to this reason and in part to heavy Western sales, some of the Southern furnaces have temporarily withdrawn quotations. This situation will be, however, of short duration, as Southern irons have grown to be an almost necessity in the Eastern foundries. We quote No. 1 x \$18 to \$18.50; No. 2 x \$17 to \$17.50; No. 2 plain \$16.50 to \$17.

Specially reported by ROGERS, BROWN & Co., Pig
Iron Commission.

CINCINNATI, Sept. 10, 1888.

Business for the past week has been satisfactory in volume and prices have been fully maintained. There is no disposition on the part of most pig iron makers to boom the market. On the contrary, the most conservative manufacturers oppose much further advance in prices, knowing well from experience that an advance of several dollars per ton is immediately followed by higher prices of coke, ore and labor, increasing cost to a danger point. Some furnaces have marked up prices \$1.50 to \$2 per ton, but more as a means of preventing further sales than of pushing the market. Southern mill irons are practically sold up for the rest of the year. We quote for cash f. o. b. Cincinnati:

HOT-BLAST FOUNDRY.

Ohio and Southern Strong Coke No. 1.	\$17	50¢	15	50
" " " " " " " " " " " "	No. 2.	16	50¢	17
Ohio Soft Stonecoal,	No. 3.	15	50¢	18
Ohio Soft Stonecoal,	No. 1.	17	00¢	17
" " " " " " " " " " " "	No. 2.	15	50¢	16
Mahoning and Shenango Valley Coke,	17	50	18	50
Hanging Rock Charcoal No. 1.	81	00	28	50
" " " " " " " " " " " "	No. 2.	79	00	28
Tennessee & Alabama Charcoal No. 1.	18	50	18	50
" " " " " " " " " " " "	No. 2.	17	50	18

	FORGE.
Strong Neutral Coke.....	\$14 75 @ 15 00
Mottled " "	13 50 @ 13 75
Cold Shortlings.....	14 50 @ 14 75

CAR WHEEL AND MALLEABLE.		
Southern Car-Wheel Iron.....	90 00	25 00
Hanging Rock Cold Blast.....	29 00	25 00
Lake Superior C. W. and Malleable...	21 00	22 00

Specially reported by GHO. H. HULL & Co., Commission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., Sept. 10, 1888.

Business during the past week has been fair, and buyers have been compelled to pay market prices, furnaces not finding it necessary to make concessions at all. There is a feeling among buyers that the coming week is to decide whether the market is to decline or another advance be made, and that the position of the Eastern market will largely decide this. Old rails are stronger, sales having been made at \$23 and \$23 25, cars Louisville, and offers on this basis have been made for large amounts for delivery through balance of year. We quote:

FIG 180W.

[illegible]

Specially reported by HALL BROTHERS & Co., Pig
Iron Commission.

LOUISVILLE, Ky., Sept. 10, 1888.

The week under review has ended with a good volume of business, and sales have been made in all directions in 500 to 2,000-ton lots, mostly for mill grades for delivery through 1888. There has been inquiry for at least 15,000 tons of mill iron, 10,000 of which have not as yet been closed, from the fact that Southern furnaces are well sold up on mill grades for this year. Foundry irons are also in heavy demand. There has been an advance of 25 cents by Southern furnaces during the past week, and we expect to see during the next week a further advance of 25 cents over present quotations. The furnaces all seem stiff in their ideas as to prices, and are not at all disposed to sell for delivery beyond the first of the year, unless at a considerable advance over the present market. We quote for cash f. o. b. cars at Louisville:

OT BLAST FOUNDRY IRONS.

Snothern Coke, No. 1.....	\$17	35	@	17	75
" " " " " "	"	16	"	35	@
" " " " " "	"	15	"	75	@
Mahoning Valley, Lake ore mixture...	\$18	25	@	18	75
Southern Charcoal, No. 1.....	\$17	75	@	18	75
" " " " " "	"	75	@	17	25
Missouri " " " "	\$19	25	@	19	75
" " " " " "	"	18	"	75	@

FORGE IRONS.

Neutral Coke.....	\$14	00	\$14	75
Cold Short.....	13	75	\$14	25
Mottled.....	12	50	\$13	00
CAR WHEEL AND MALLEABLE IRONS.				
Southern (standard brands)	\$22	00	\$24	00
" (other brands).....	18	00	\$18	50
Lake Superior.....	21	50	\$22	50

Specially reported by ROGERS, BROWN & Co. W.
W. BACKMAN, Resident Agent.

CHICAGO, Sept. 10, 1888.

The only noteworthy features of this market during the past week were some large purchases of Lake Superior charcoal iron. It is understood to have gone at a shade less than \$20 at Chicago. From what can be

The Only Manufacturers of Rawhide Belting in the Country.

The Chicago Rawhide Mfg. Company,
—MANUFACTURERS OF—
RAWHIDE BELTING, LACE LEATHER.

-MANUFACTURERS OF

★ ROPE, LARIATS, FLY-NETS, ★
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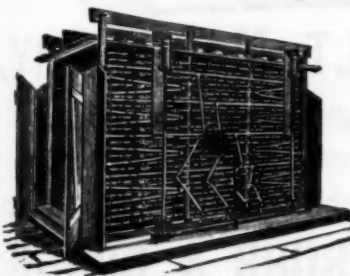
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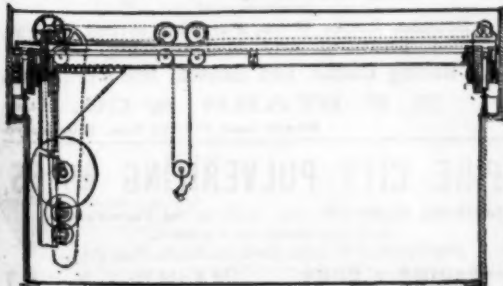
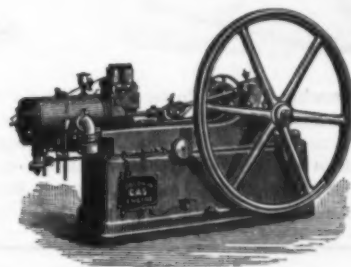
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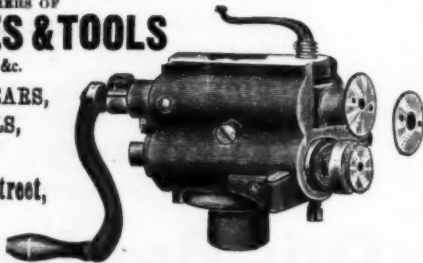
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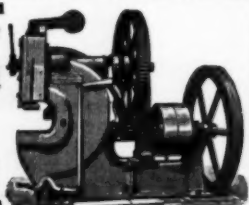
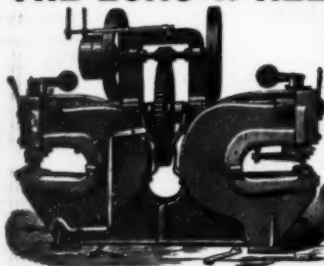


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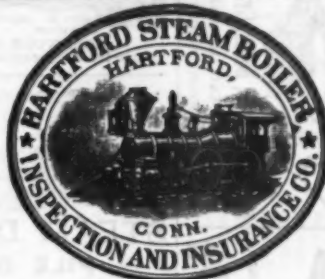
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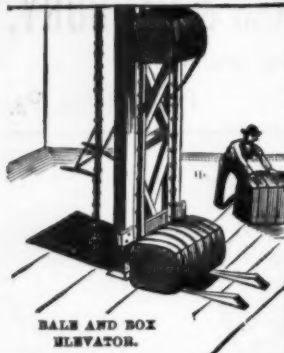
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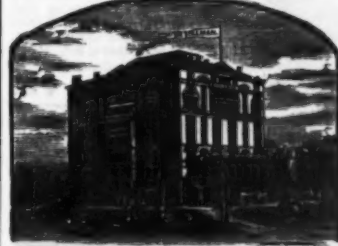
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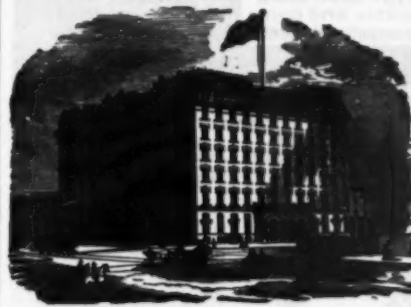
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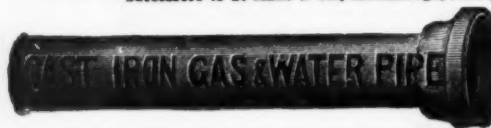
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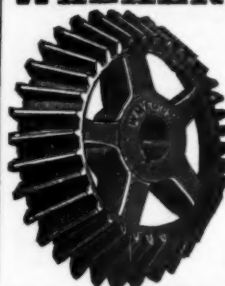
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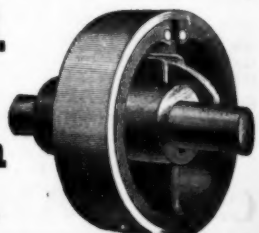
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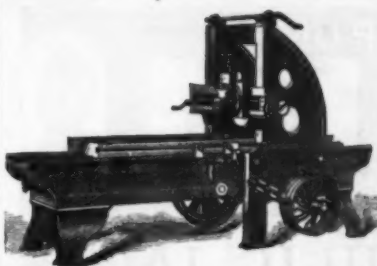
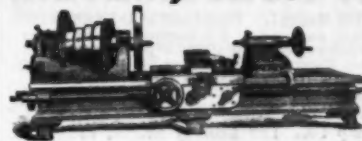
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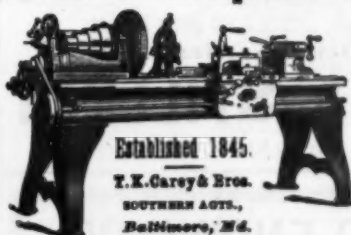
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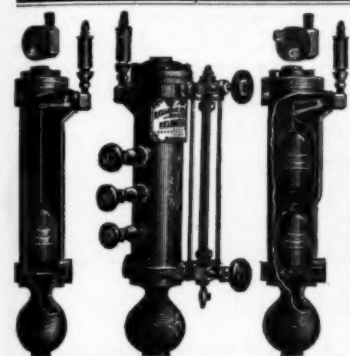
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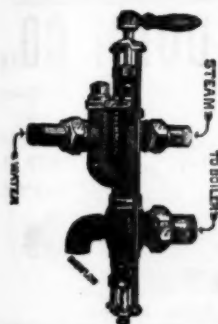
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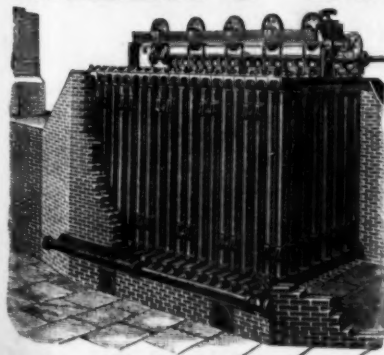
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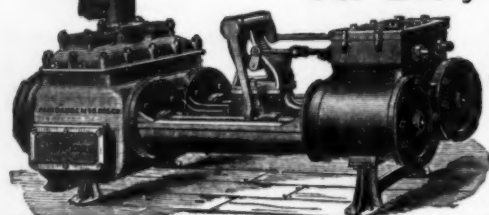
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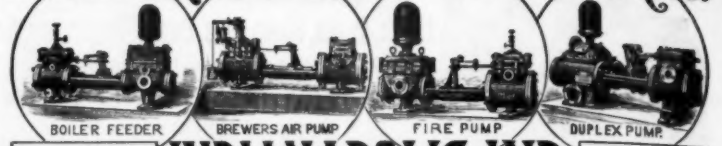
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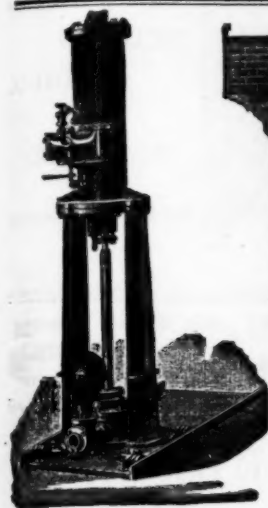
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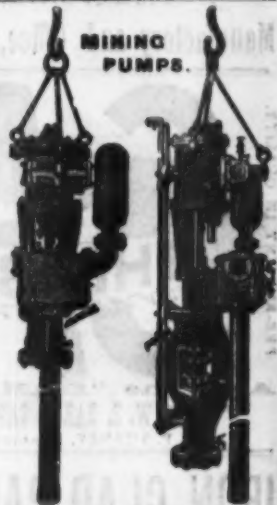


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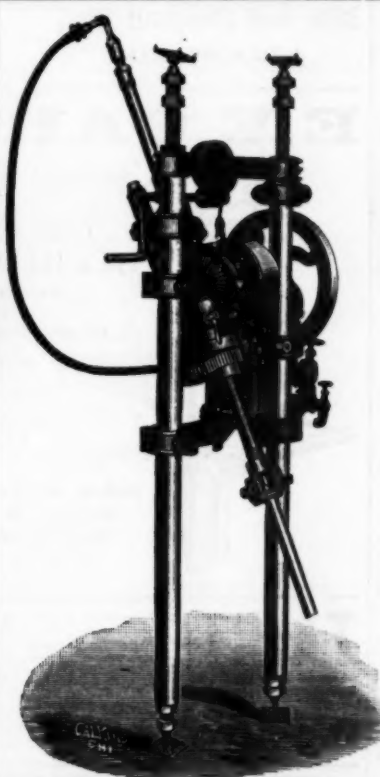
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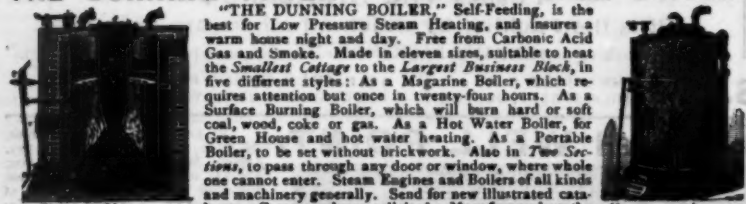
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